

## Working Instructions

- mechanical –



*Xperia™ XZs*  
*G8231, G8232 (Dual SIM)*

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**For general information about mechanical repair related issues, refer to 1220-1333: Generic Repair Manual - mechanical**

**Always disconnect the Battery FPC B to B connector to cut off power supply when the Display Assy is disassembled.**

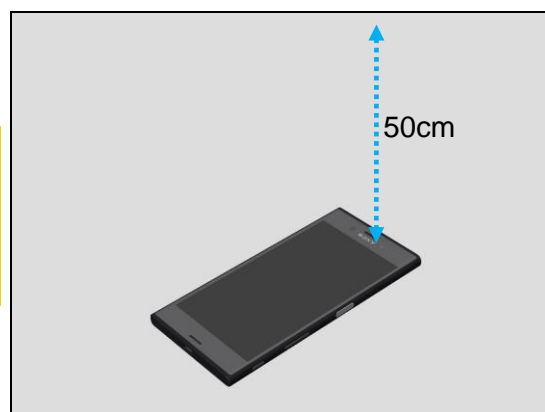
**Always finally connect the Battery FPC B to B connector after other connector are connected except the Display B to B.**

**1289-2983 SMRA(Sony Mobile Repair Application) Calibration or Flashing Customize by Emma or Aged Battery Reset by Emma must be performed when following Reassembly or Replacement.**

		SMRA Calibration					Emma	
		Proximity	Noise Cancelling	Color ID Flashing	RGBC-IR	ToF	Flashing Customize	Aged Battery Reset
Reassembly	Display Assy	○						
	PBA Complete	○						
Replacement	Display Assy	○						
	PBA Complete	○	○	○	○	○		
	FPC JK Module		○					
	Battery							○
	Cover Main				○			
	Loudspeaker						○	
	Speaker						○	

**Note! When performing proximity sensor calibration, put the phone unit on a stable place, facing up, and no any objects within 50cm.**

**Remove the protection film if sensor window is covered by the protection film.**



## 1 Exterior Views

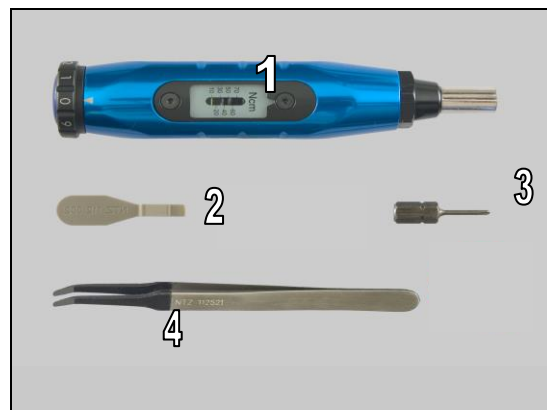
### 1.1 G8231, G8232



## 2 Tools

### SPECIAL TOOLS

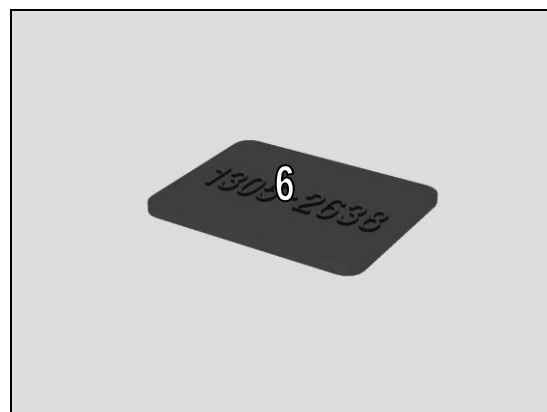
1. Torque Screwdriver 2-30Ncm (1233-2284)
2. Front Opening Tool (NTZ 112 302/2)
3. Bits (JCIS No 0) (NTZ 112 1052)
4. Flex Film Assembly Tool (NTZ 112 521)



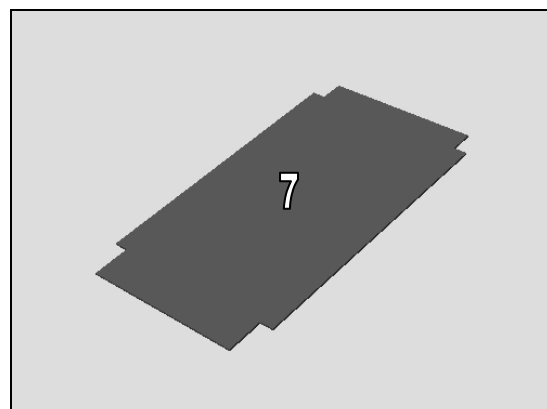
5. Press Clamp (1304-6943)



6. Press spacer (1305-2638)



7. Disassembly Sheet (1295-5578)



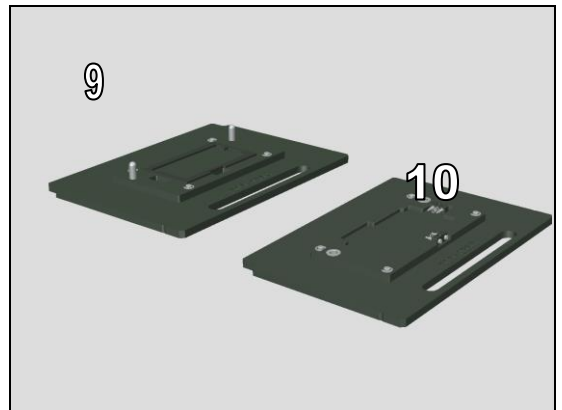
## Tools

8. Media Cable TyepC Cable (Black) (1302-1935)

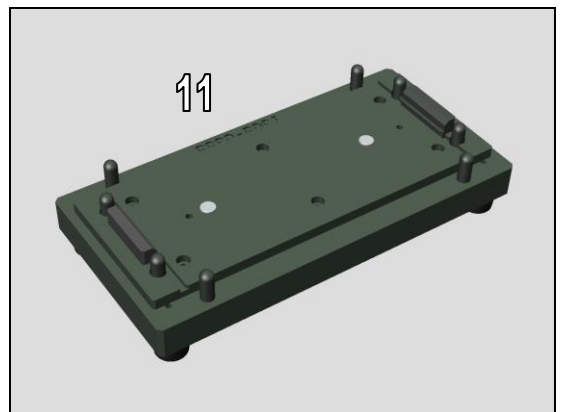


9. Panel Press Top Inlay (1305-0354)

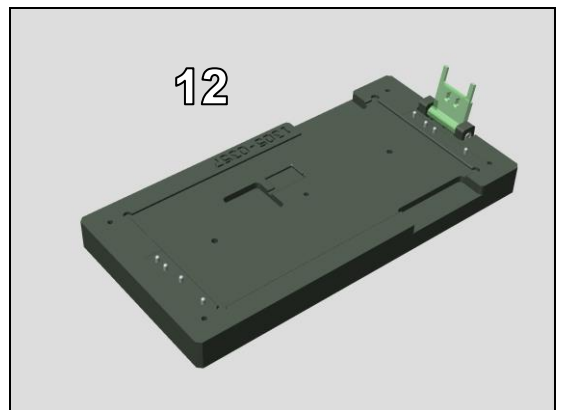
10. Bottom Press Inlay (1305-0353)



11. Window panel Adhesive Fixture (1305-0355)



12. Adhesive Position Pin Fixture (1305-0357)

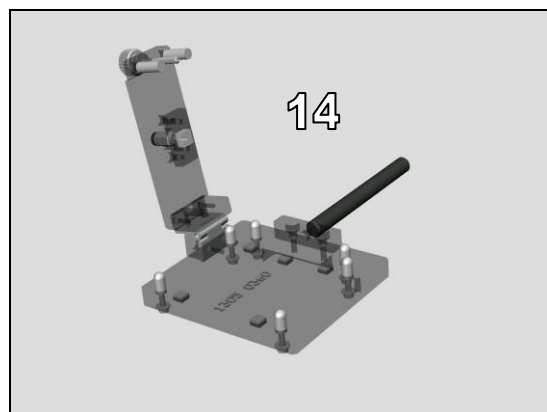


## Tools

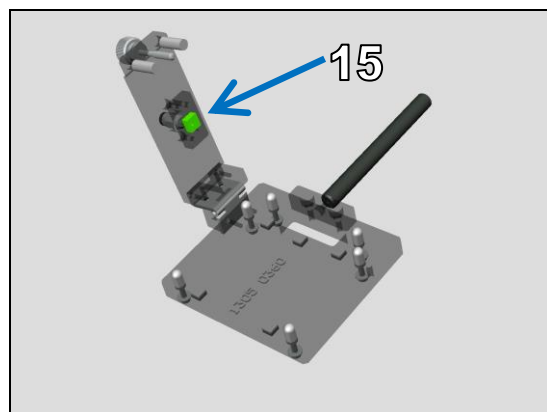
13. Generic Fixture for Press tool (1273-4413)



14. WRT Fixture (1305-0360)  
(Including Silicon Suction Cup for F83xx 1305-7885)

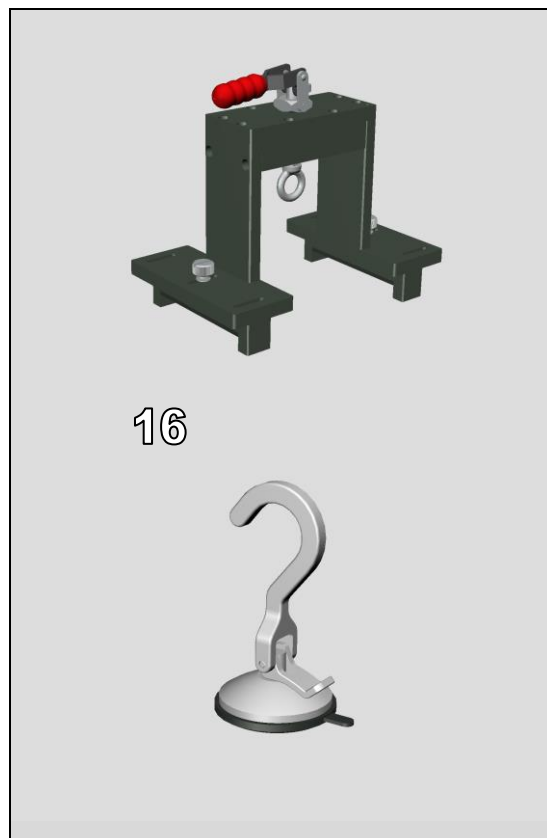


15. Silicon Suction Cup for F83xx(1305-7885)  
(Maintenance parts for WRT Fixture 1305-0360)





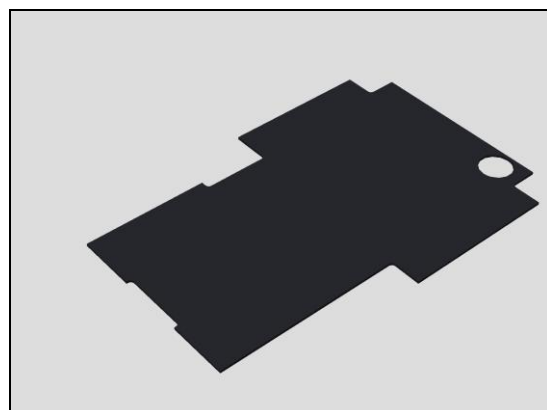
16. Panel disassembly tool(1305-0361)  
(Including Vacuum Cup for tool (1305-7901))



17. Vacuum Cup for tool (1305-7901)



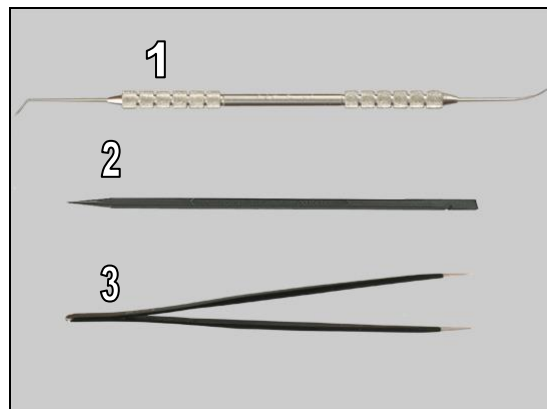
18. Sheet for Bottom Press Inlay (1307-2634)



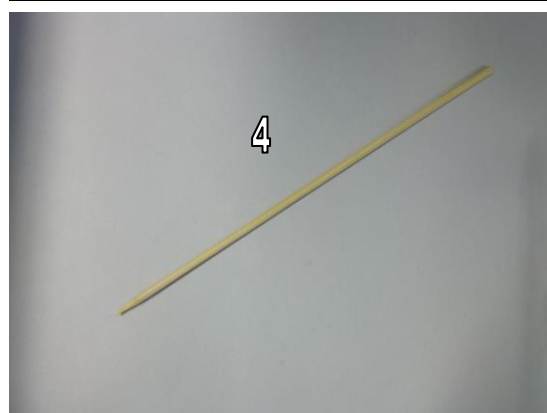
## Tools

### STANDARD TOOLS

1. Dentist Hook
2. Nylon Pointer
3. Tweezers



4. Bamboo Skewer



5. Silicon Suction Cup



The Mandatory Replacement Parts List is embedded.  
Double click the icon to open the file.



**Mandatory repla**

Targeted replacement parts are listed

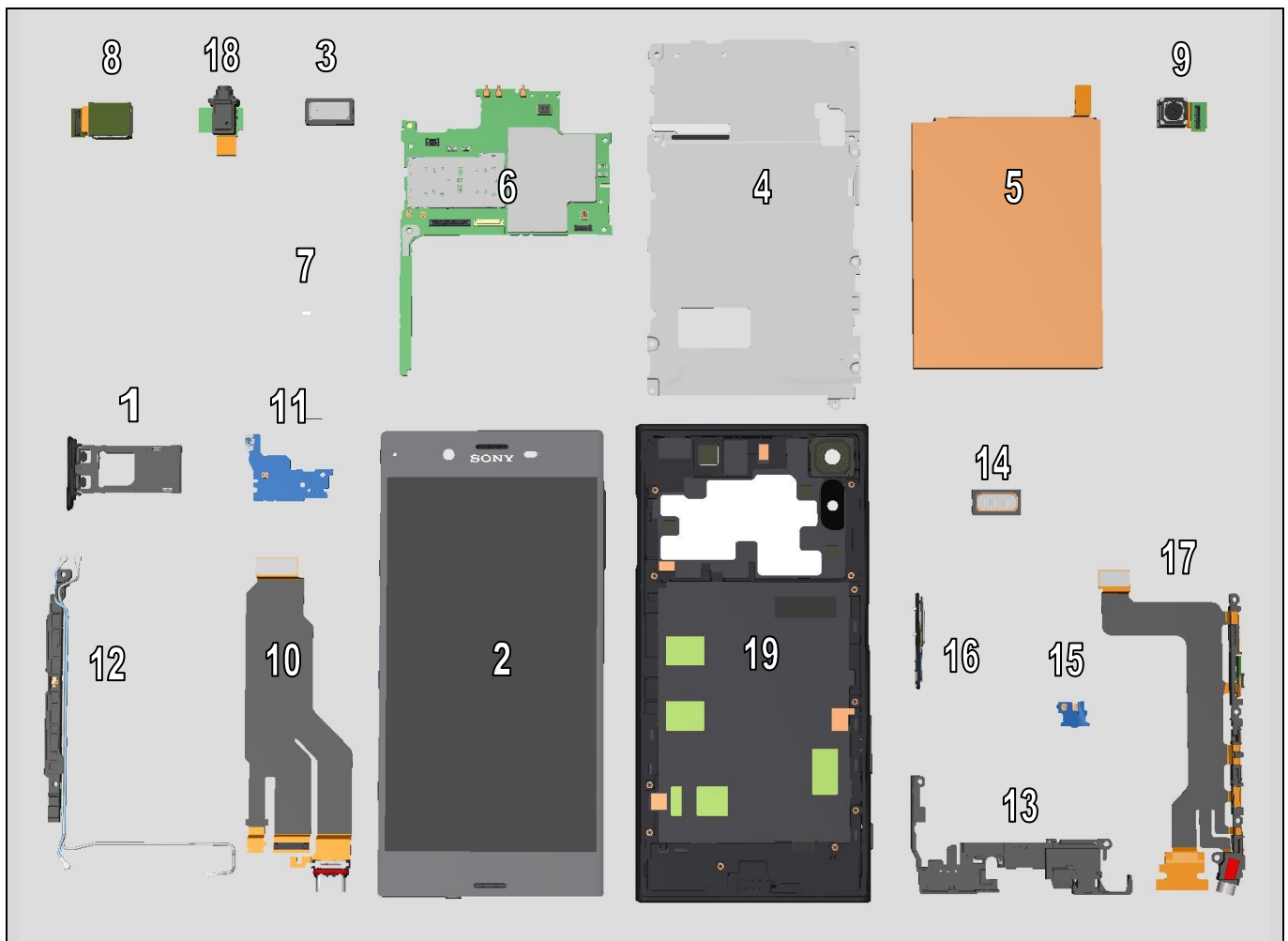
Mandatory replacement parts for refurbishment.

Number in the cells indicates parts  
require replacing for target part.

## 4 Disassembly

The disassembly is done in the following order:

1. Cap Tray Assy
2. Display assy
3. Loudspeaker
4. Plate Display Assy
5. Battery
6. PBA complete
7. Liquid indicator
8. FICTIVE Main Camera
9. FICTIVE Sub Camera
10. FPC Relay Assy
11. PBA Sub
12. Ant WLAN Assy
13. Ant Main Assy
14. Speaker
15. PBA Ant
16. FP Sensor Assy
17. FPC Key Assy
18. FPC JK Module
19. Cover Main Assy



## Disassembly

Disassembly Quick Reference Chart is embedded.

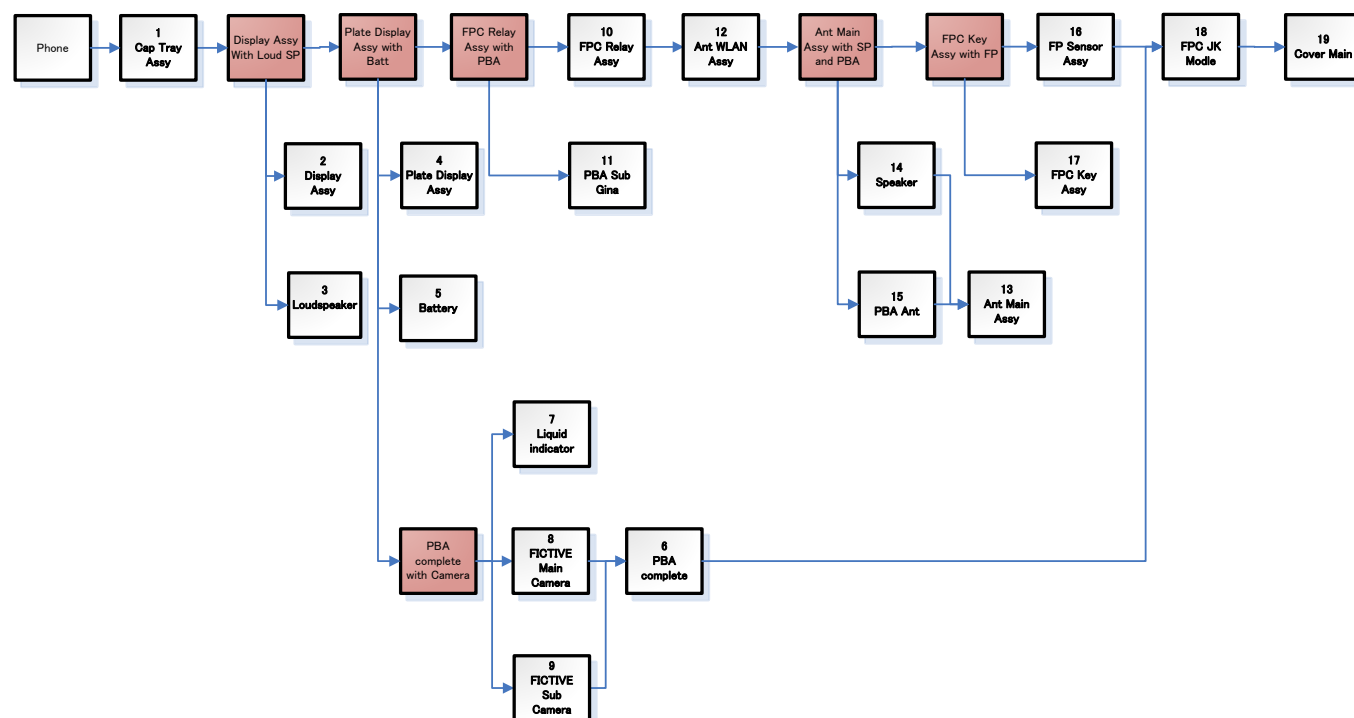
Required disassembly procedures of specific part removing can be identified by Disassembly Quick Reference Chart.

Red color boxes are assembled part. Others are target part.

Double click.



Adobe Acrobat  
Document

[illegible]

### 4.1 Cap Tray Assy

Remove Cap Tray Assy.

**Note! Remove the Cap Tray Assy to keep rear side up. Otherwise, SIM card and (or) micro SD card will be fallen down.**



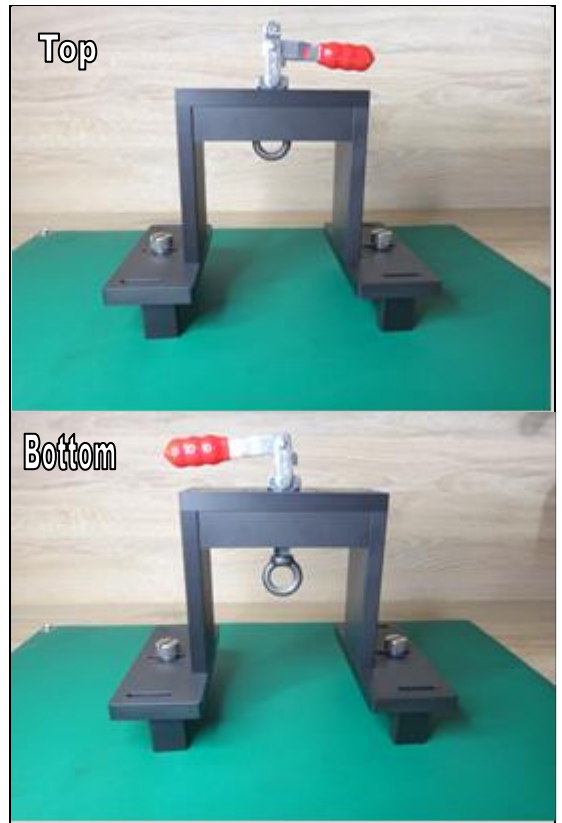
### 4.2 Display Assy

Place the Vacuum Cup for tool on the Display Assy.

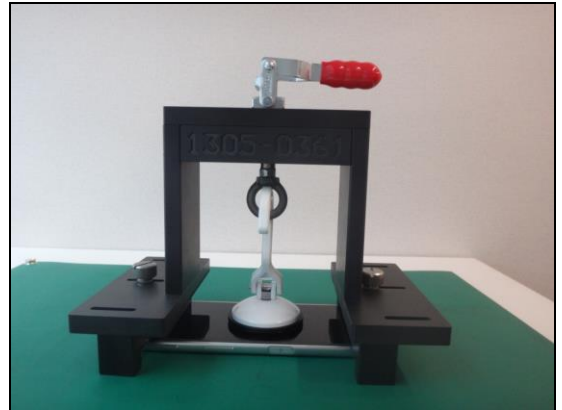
**Note! Place the Vacuum Cup the center on the Display Assy.**



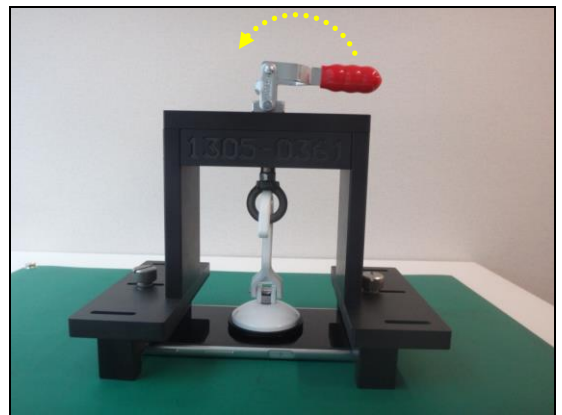
Set the ring position to the bottom.



Hung the Vacuum Cup for tool on the Panel Front Disassembly Tool.



Turn the lever to pull up the display.

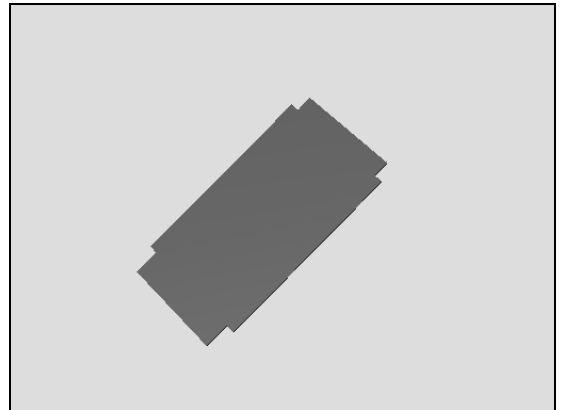


Wait until it opens the Display Assy.

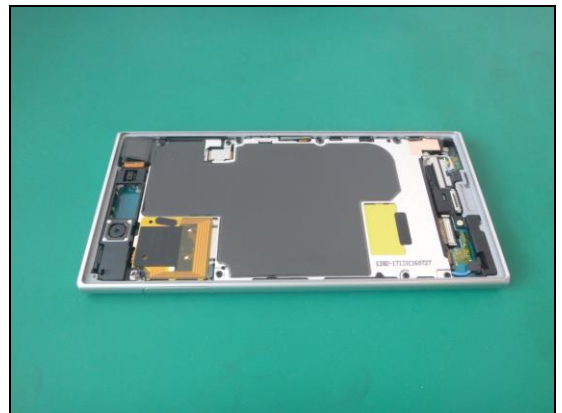


## Disassembly

Provide Disassembly Sheet to cut the Adhesive WR Window Display, the Adhesive Window Display Top and the Adhesive Window Display Bottom these are fixing the Display Assy and the unit.



Under the Display the Graphite Camera, the Graphite Plate Display and the FICTIVE Sub Camera are located as shown.



The Loudspeaker is located at yellow marked position.





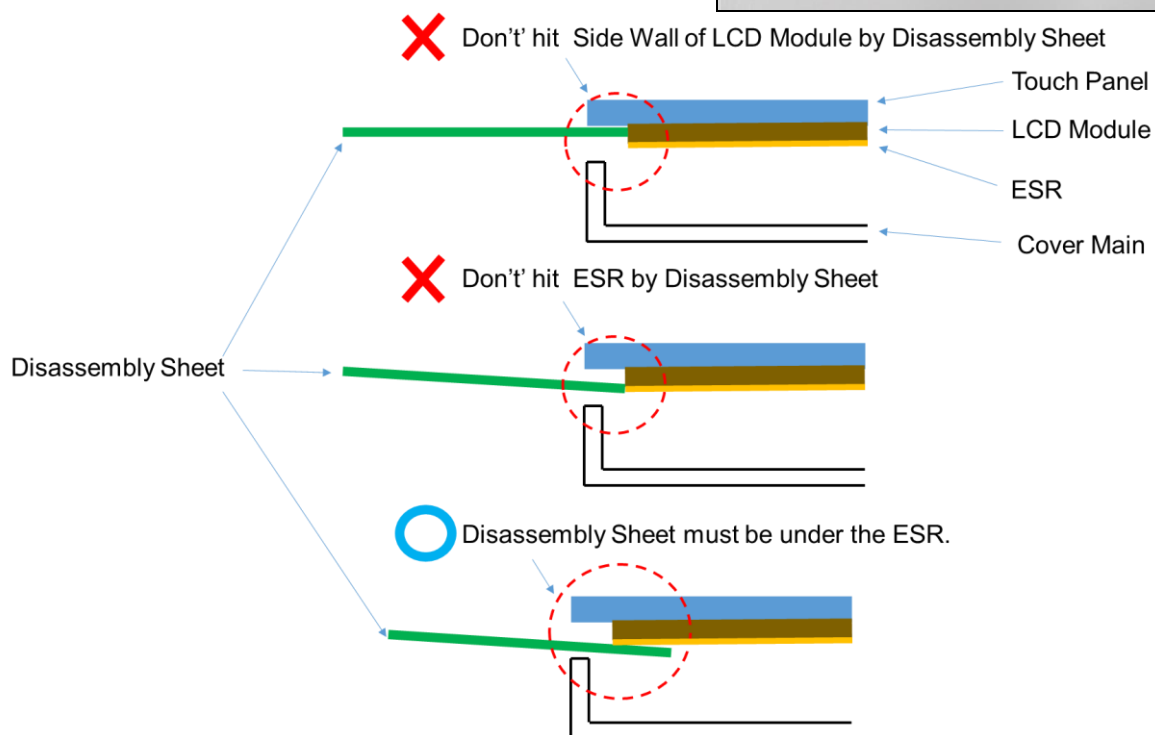
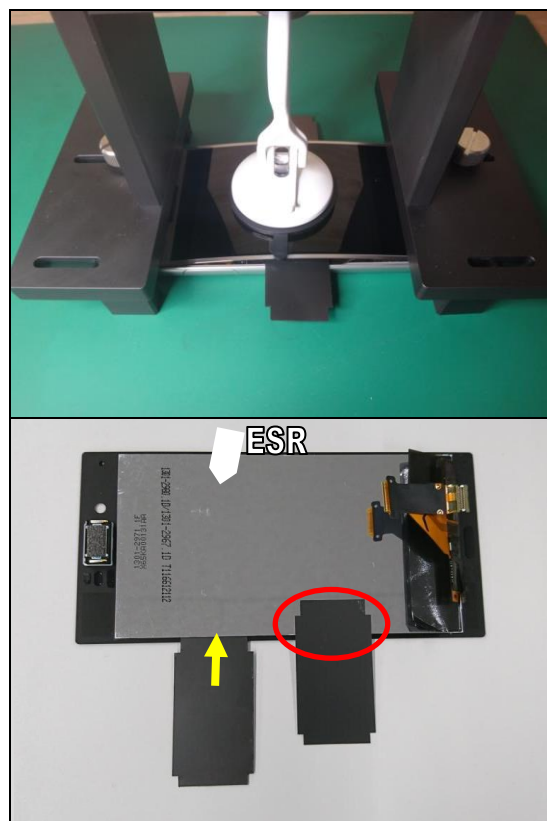
## Disassembly

Insert the Disassembly Sheet into the between display and unit at both side of the phone.

Insert the Disassembly Sheet short side to the unit right side.

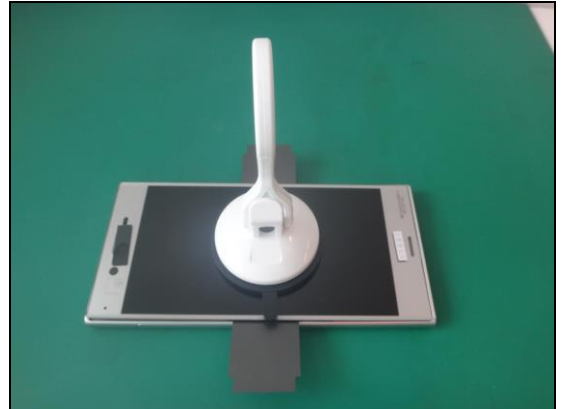
Insert the Disassembly Sheet long side to the unit left side.

**Note! Do not hit side wall and Mirror sheet (ESR : Enhanced Specular Reflector) of the Display Assy as shown yellow arrow. Some dark marks will appear on the Display assy if you hit them. Insert the Disassembly sheet under the Display assy when you cut both side of the Adhesive Display as shown red circle.**

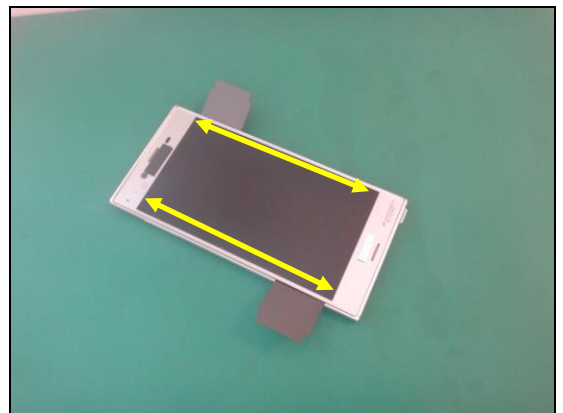


## Disassembly

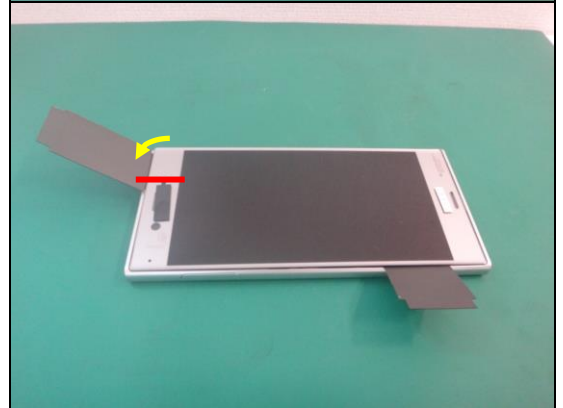
Remove the unit from the Panel Front Disassembly Tool.



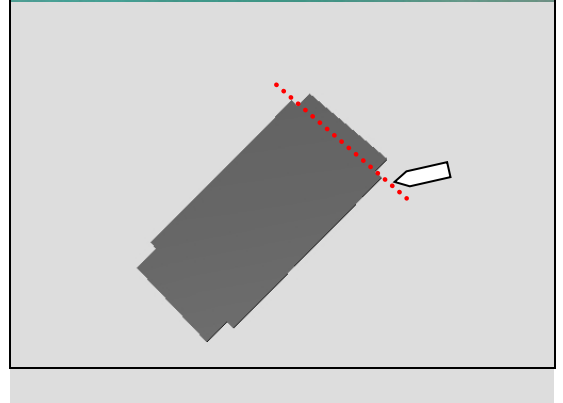
Slide the Disassembly Sheet along both sides of the Display view area.



Slide the Disassembly Sheet from the right side of the Display to the right side of the Loudspeaker (Receiver). Don't slide beyond red line.



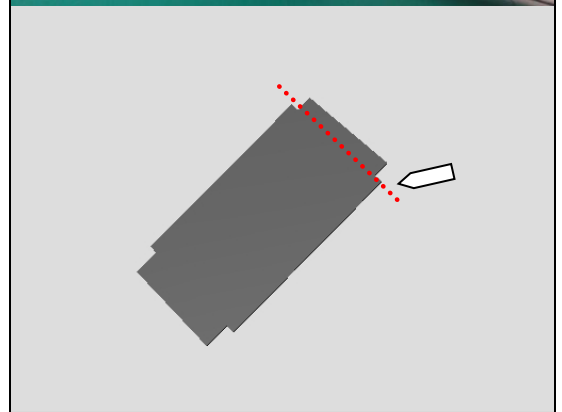
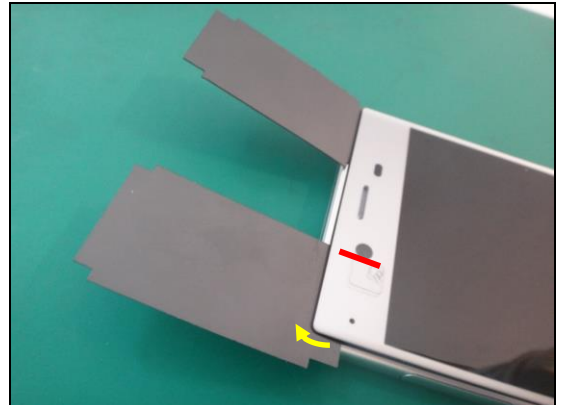
**Note! Don't insert the Disassembly Sheet into the unit beyond red dotted line to prevent damage of the inner part when slide the Disassembly Sheet to the right top of the Display.**



## Disassembly

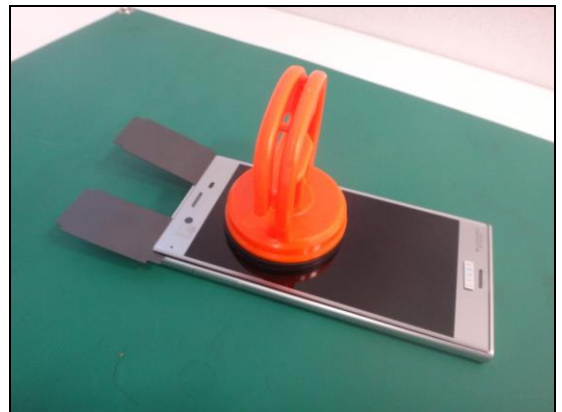
Slide the Disassembly Sheet from the left side of the Display to the left side of the Sub Camera window.  
Don't slide beyond red line.

**Note! Don't insert the Disassembly Sheet into the unit beyond red dotted line to prevent damage of the inner part when slide the Disassembly Sheet to the left top of the Display.**

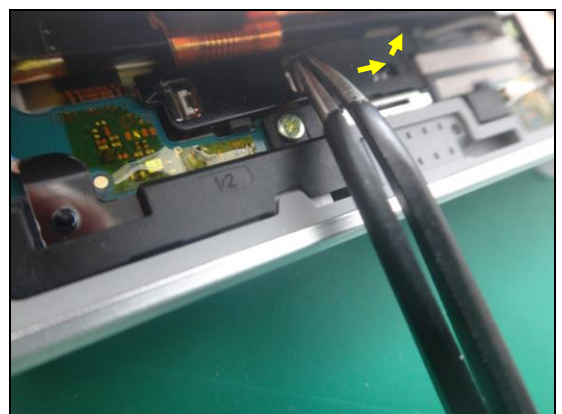


Remove the Display Assy from top side.

**Note! If you remove the Display Assy from bottom side, the Loudspeaker and the Display FPC may have damage during disassembling.**



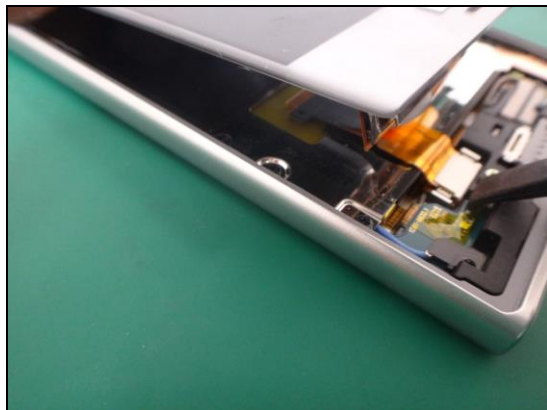
Remove the Holder LCD BtB as shown.



## Disassembly

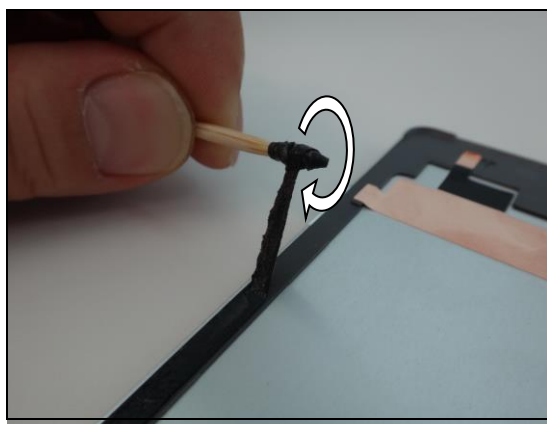
Disconnect B to B Connector.

**Note! Take care don't lift the Plate LCD B to B Assy.**



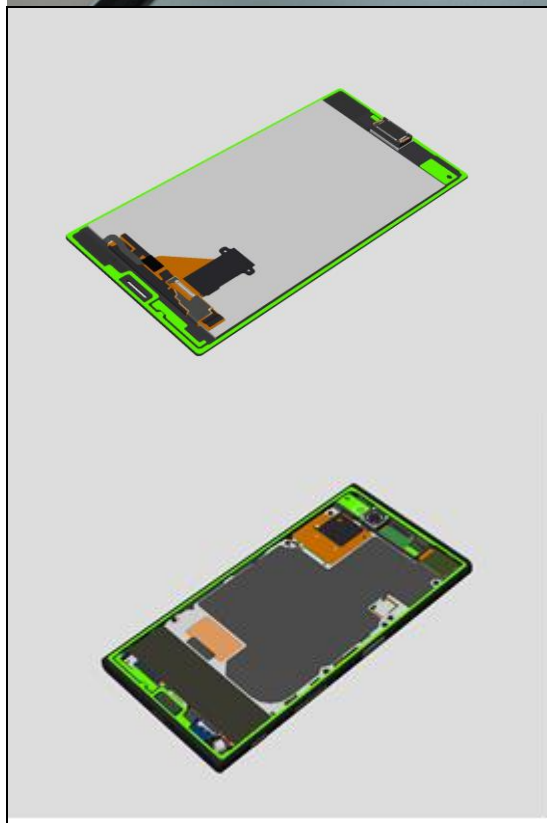
Remove the Adhesive WR Window Display to use Bamboo Skewer.

Rotate the Bamboo Skewer to take up the Adhesive WR Window Display, the Adhesive Window Display Top and the Adhesive Window Display Bottom.



**Note! Make sure to remove all residues of the Adhesive WR Window Display, the Adhesive Window Display Top and the Adhesive Window Display Bottom completely from both Display Assy and unit (Green Highlighted Area).**

**Don't use Isopropyl Alcohol for cleaning.**

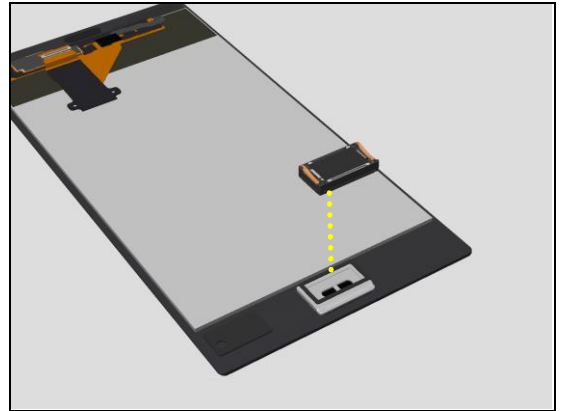


## Disassembly

### 4.3 Loudspeaker

Remove the Loudspeaker.

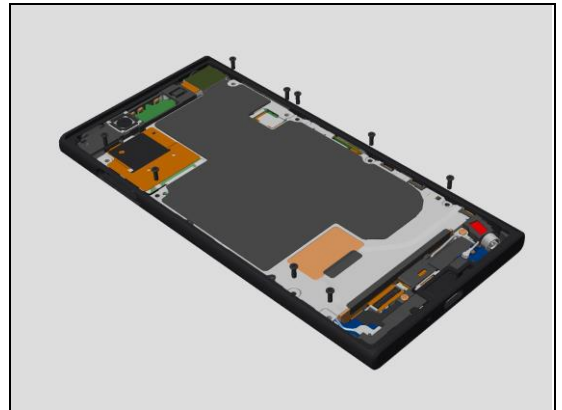
**Scrap! Don't reuse the Loudspeaker.**



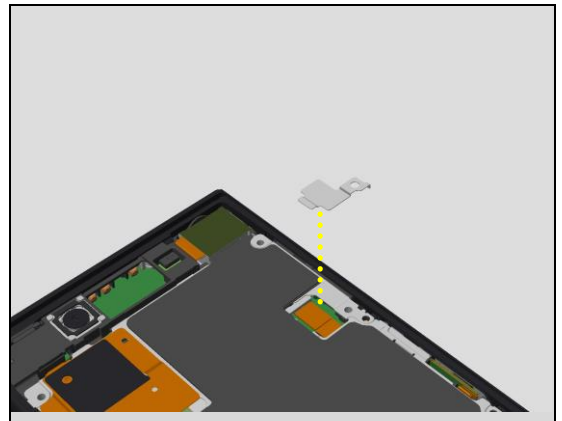
### 4.4 Plate Display Assy

Remove the 9 of Screw M1.4x4.0 by using the screwdriver with Bits (JCIS No 0).

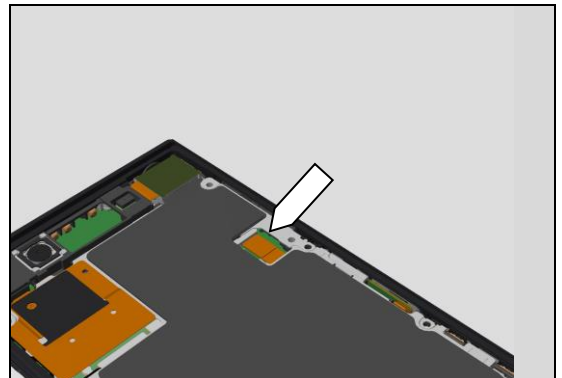
**Scrap! Don't reuse the screws!**



Remove the Plate BtB Battery.

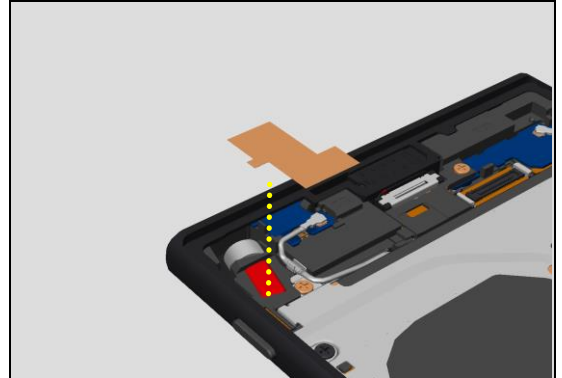


Disconnect the Battery B to B connector with the Front Opening Tool.



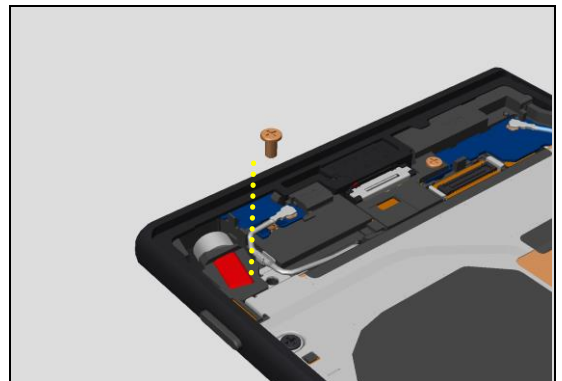
## Disassembly

Remove the Sheet Conductive Vib.



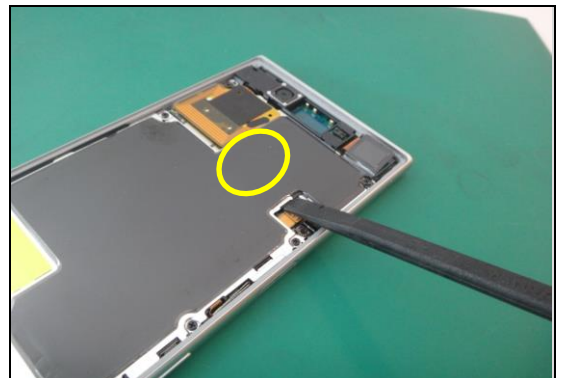
Remove the Screw M1.4x3.0 by using the screwdriver with Bits (JCIS No 0).

**Scrap! Don't reuse the screws!**



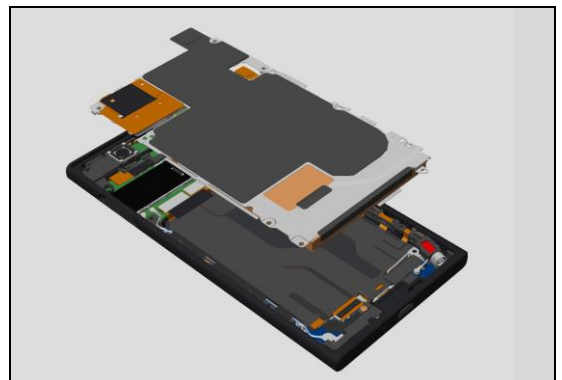
Under the Plate Display Assy the TGF is located yellow marked position. Insert tool between the Plate Display Assy and the Holder Main PBA to peel off the TGF. .

**Note! Don't deform The Plate Display Assy.**



Remove the Plate Display Assy.

**Note! Follow 6 Battery Ruse Instruction. Don't reuse the Thermal Gap Filler If you find any damage.**

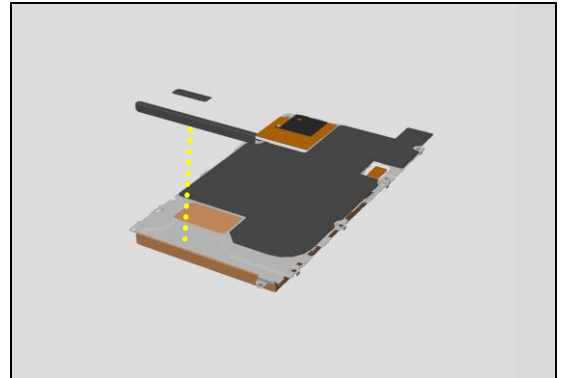




## Disassembly

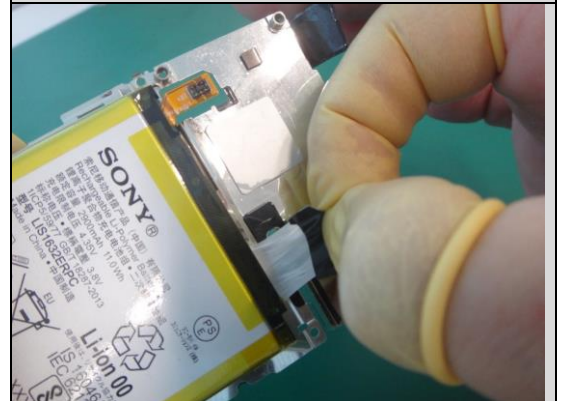
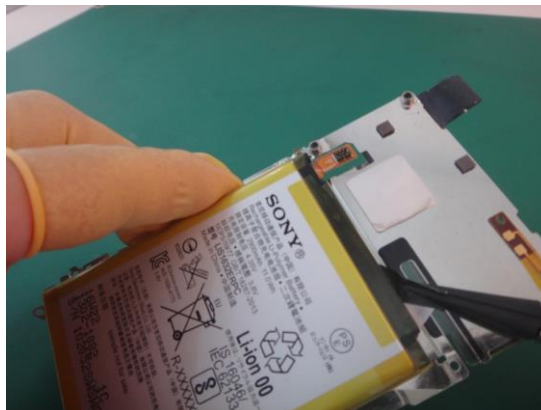
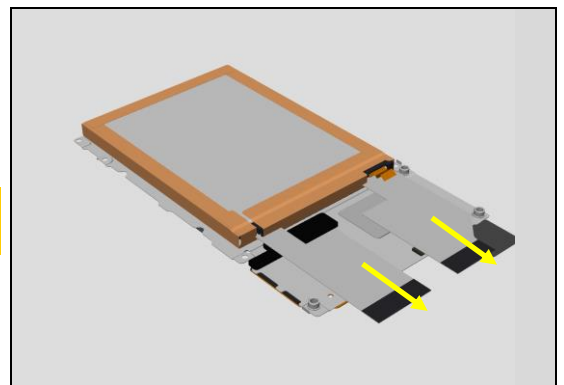
### 4.5 Battery

Remove the Sheet protection Plate display.



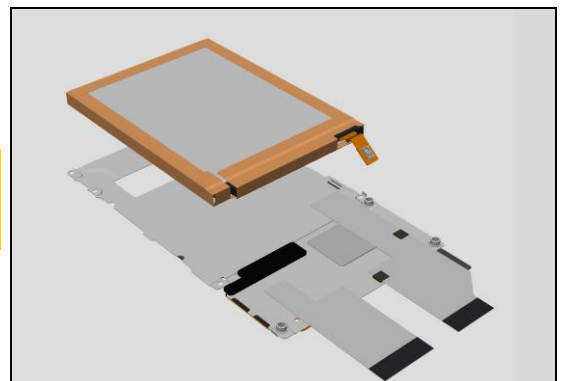
Pull the Adhesive Battery black tab.

**Note! Pull the Adhesive Battery horizontally and gently to avoid cut.**



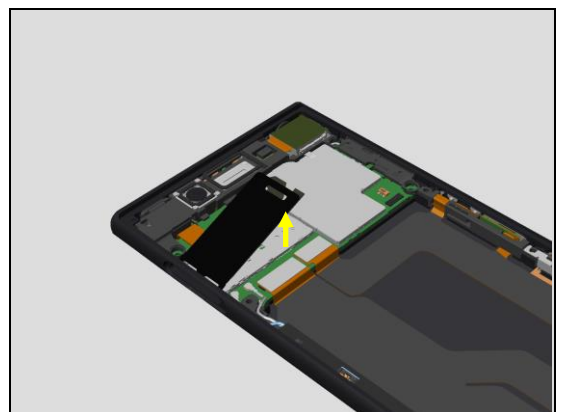
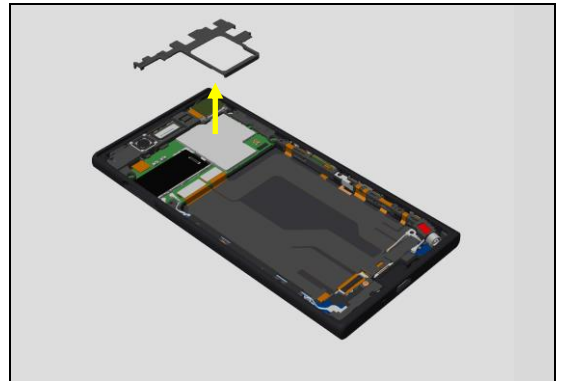
Remove the Battery.

**Don't reuse the Battery. Don't reuse the Plate Display, Graphite Camera, the Graphite Plate Display and the FPC NFC If you find any damage**



### 4.6 PBA complete

Remove the Holder Main PBA.



Remove the Sheet Slider MOP as shown procedure.



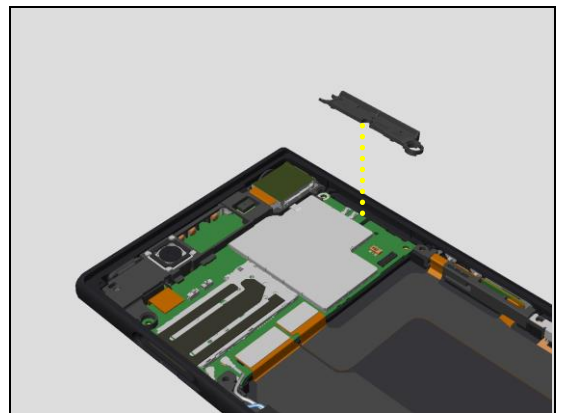


## Disassembly

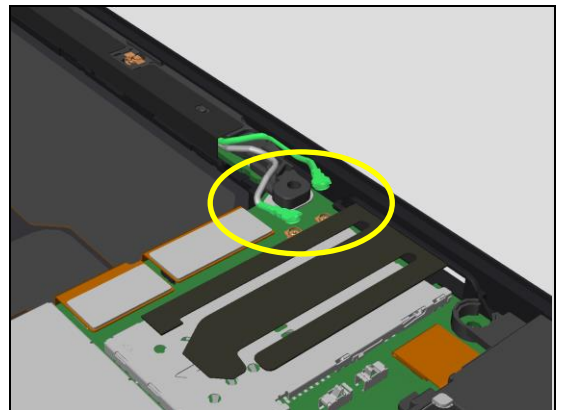
Unlock the Ant WLAN Main as shown.



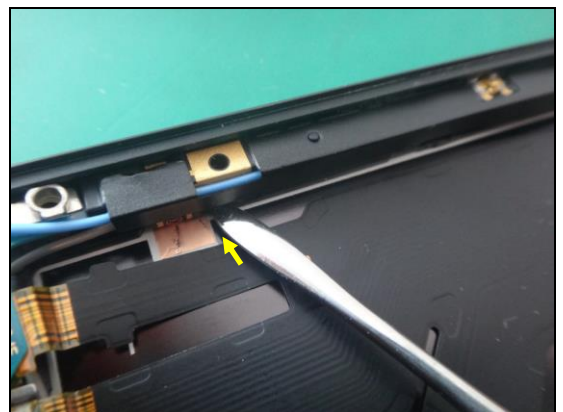
Remove the Ant WLAN Main,



Disconnect the 2 RF connectors on the PBA complete.



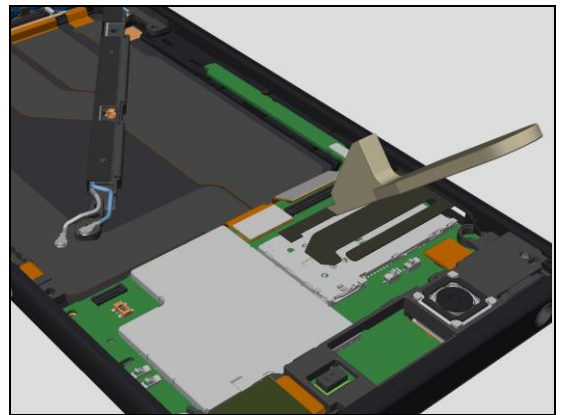
Unlock the Ant WLAN Assy partially as shown.



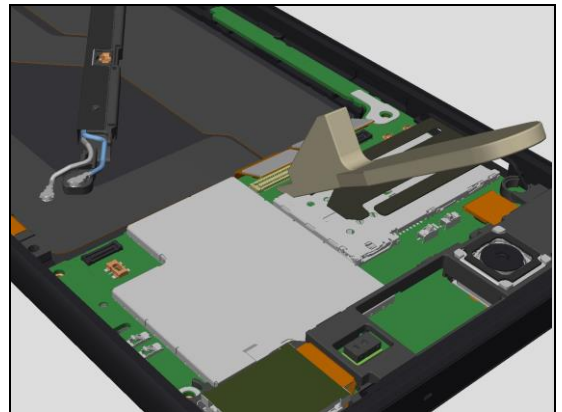
Move the Ant WLAN Assy as shown.



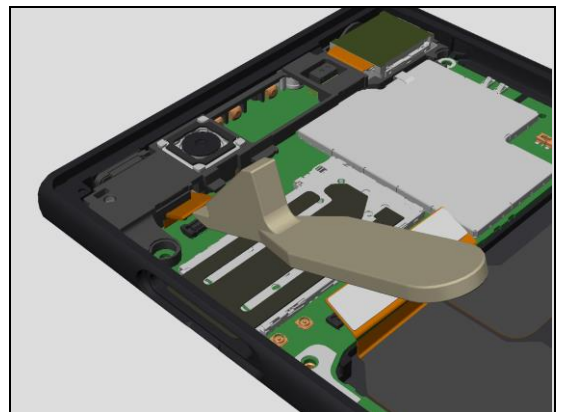
Disconnect the FPC Relay Assy B to B connector with the Front Opening Tool.



Disconnect the FPC Key Assy B to B connector with the Front Opening Tool.



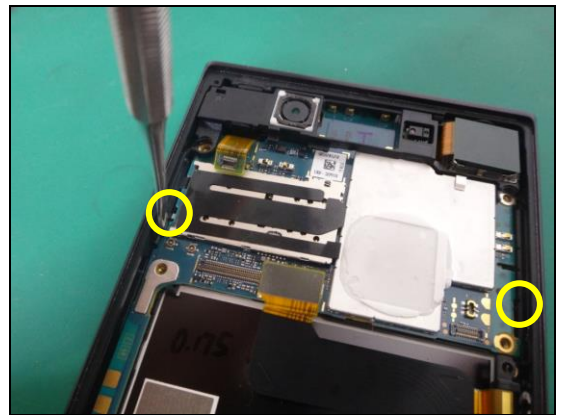
Disconnect the FPC JK Module B to B connector with the Front Opening Tool.



Straighten the FPC JK Module FPC.



The PBA complete is fixed by 2 hooks on the Cover Main Assy where is marked by yellow circle.



Remove the PBA complete as shown procedure.

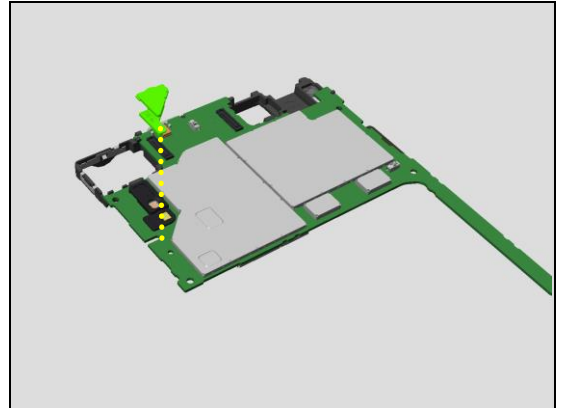
**Note! Be careful the JK Module FPC B to B.**

**Make sure to do not deform the Sheet WR MIC.**

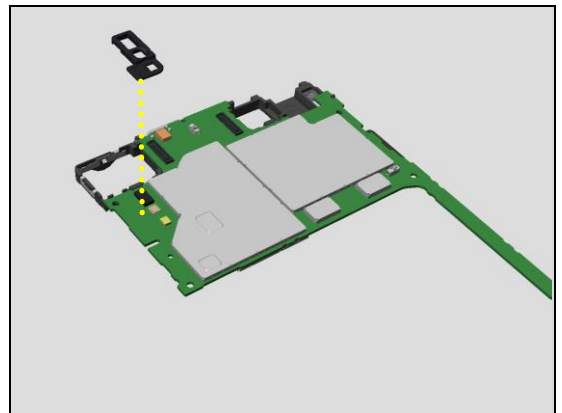


## Disassembly

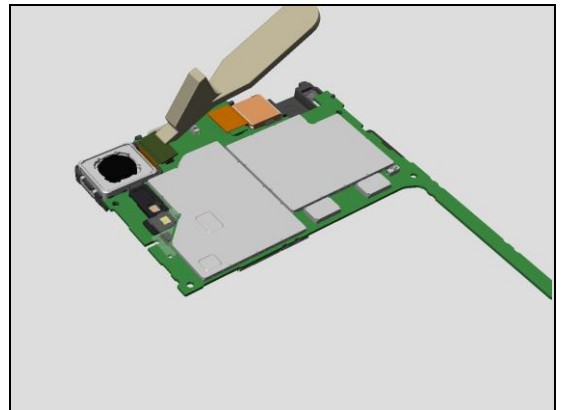
Remove the Lens Flash with the Tweezers.



Remove the Holder Sensor with the Tweezers.

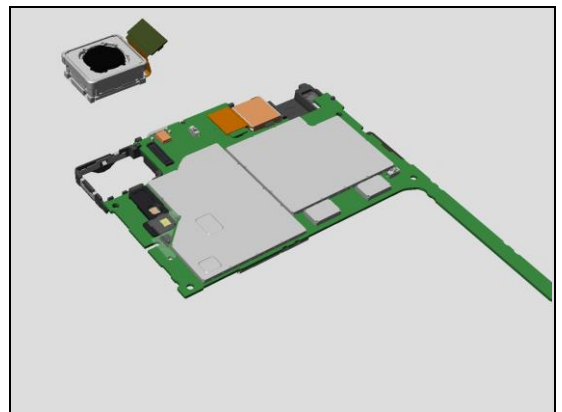


Disconnect the FICTIVE Main Camera a B to B connector with the Front Opening Tool.



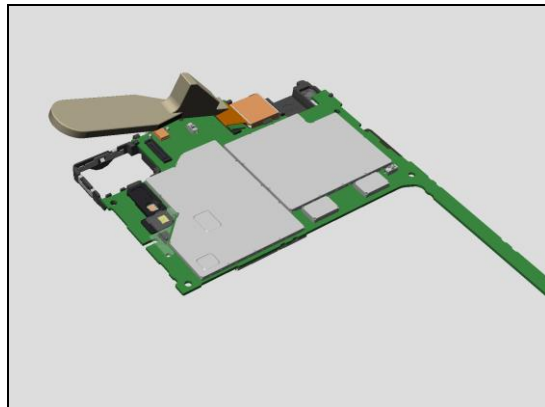
Remove the FICTIVE Main Camera with the Flex Film Assembly Tool.

**Note! Grab the side wall .**



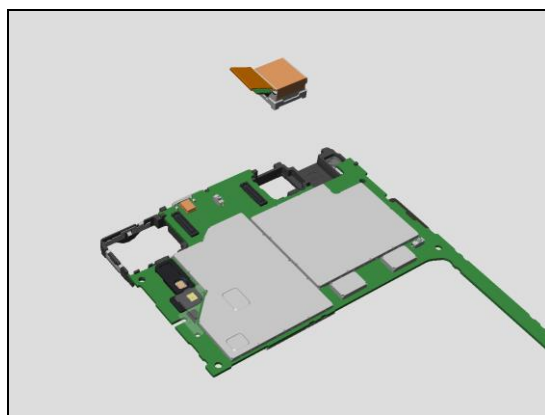
## Disassembly

Disconnect the FICTIVE Sub Camera B to B connector with the Front Opening Tool.

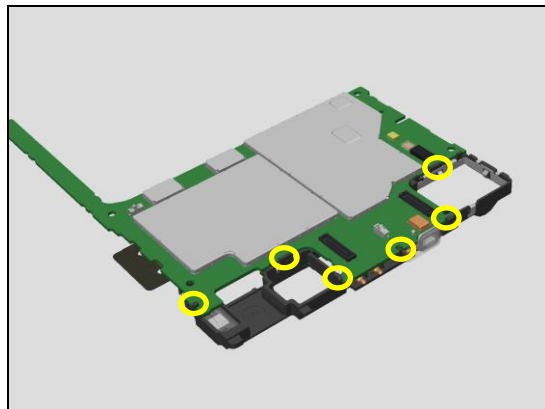


Remove the FICTIVE Sub Camera with the Flex Film Assembly Tool.

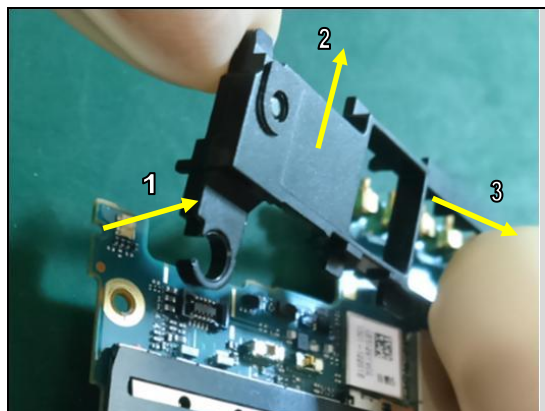
**Note! Grab the side wall.**



The Holder Top Assy is fixed by 4 hooks and 2 rib on the PBA complete.

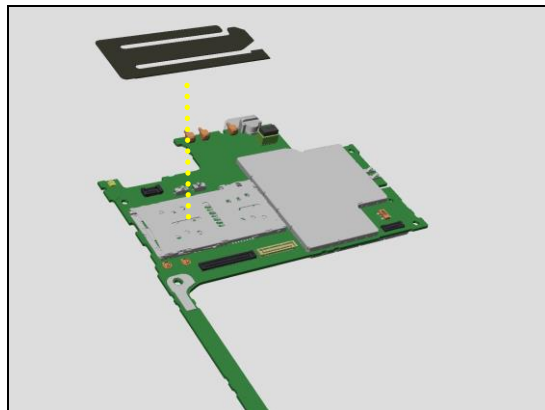


Remove the Holder Top Assy as shown procedure.

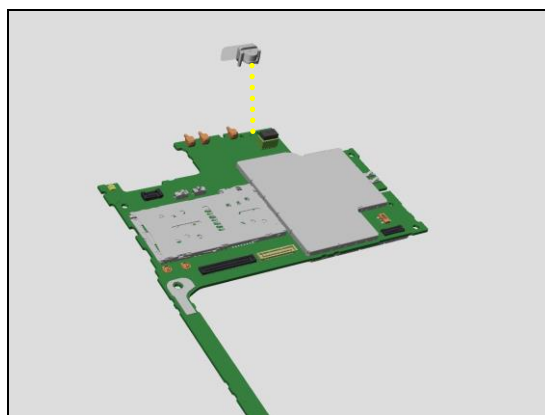




Remove the Sheet Guide MOP.

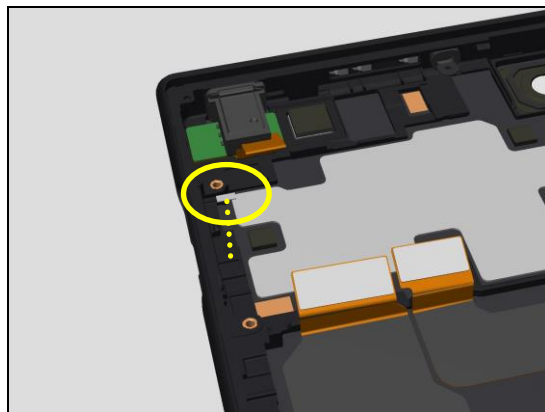


Remove the Holder MIC 2nd.



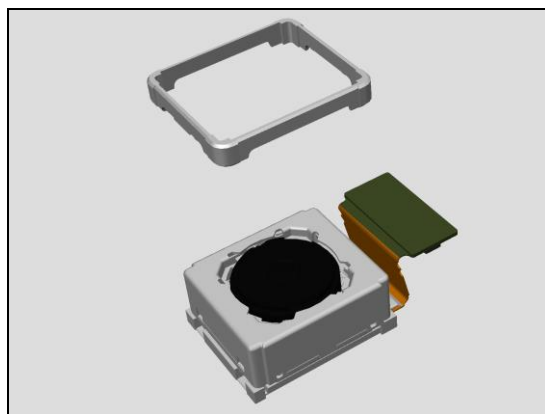
## 4.7 Liquid indicator

Remove the Liquid indicator.



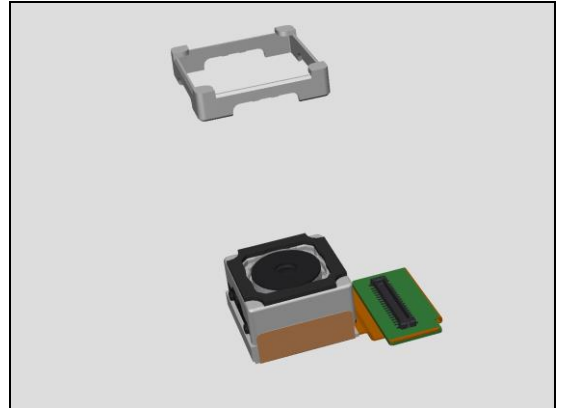
## 4.8 FICTIVE Main Camera

Remove the Holder Main Camera.



### 4.9 FICTIVE Sub Camera

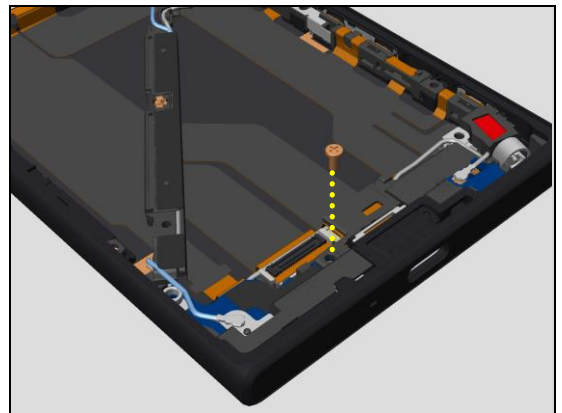
Remove the Holder Sub Camera.



### 4.10 FPC Relay Assy

Remove the Screw M1.4x3.0 by using the screwdriver with Bits (JCIS No 0).

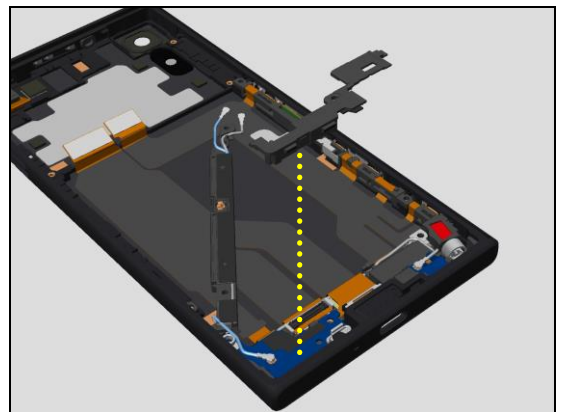
**Scrap! Don't reuse the screws!**



Insert the Nylon Pointer to unlock the Holder Bottom as shown.



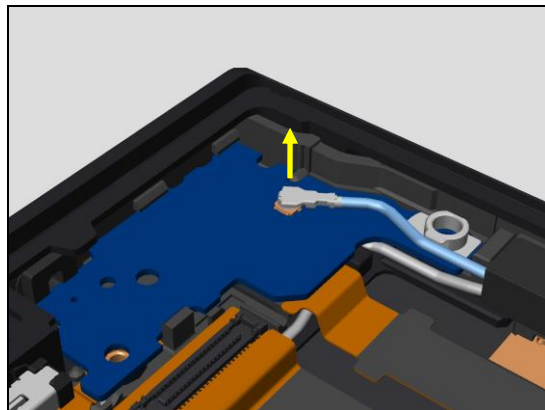
Remove the Holder Bottom.





## Disassembly

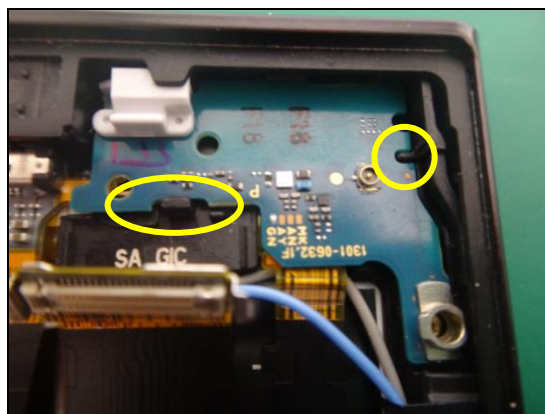
Disconnect the Ant WLAN Assy RF connector on the PBA Sub.



Move the Ant WLAN Assy to the original location.



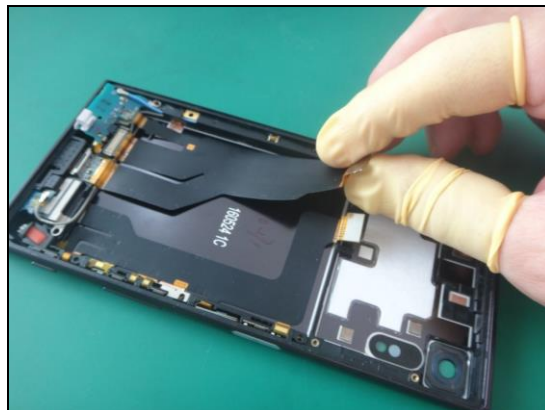
The PBA Sub is fixed by 1 hook and 1 rib on the Cover Main Assy where is marked by yellow circle.



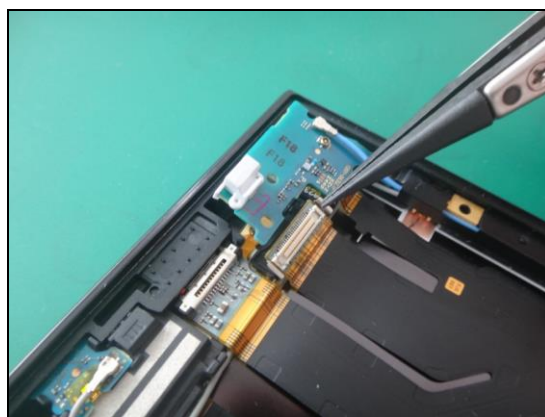
Remove the PBA Sub as shown.



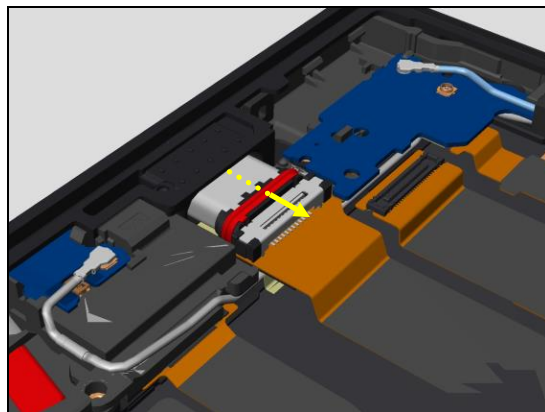
Peel the FPC Relay Assy gently from the Cover Main Assy.



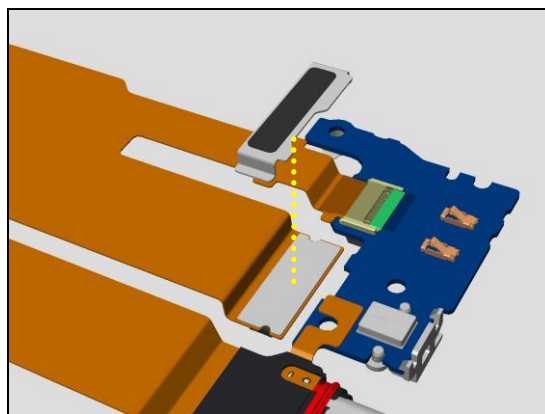
Remove the Plate LCD BtB Assy from the Ant Main Assy.



Remove the USB connector.



Remove the Plate LCD BtB Assy.



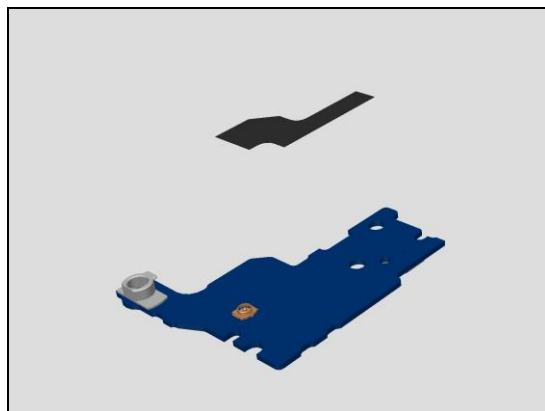
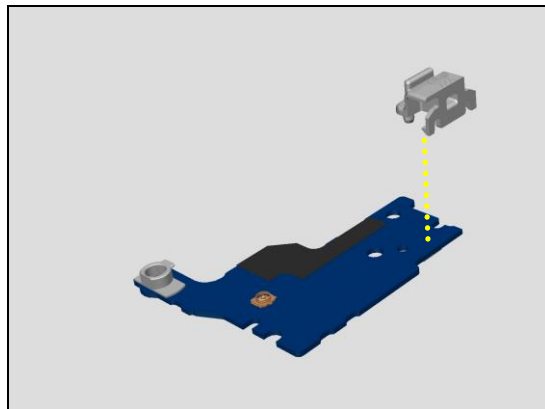
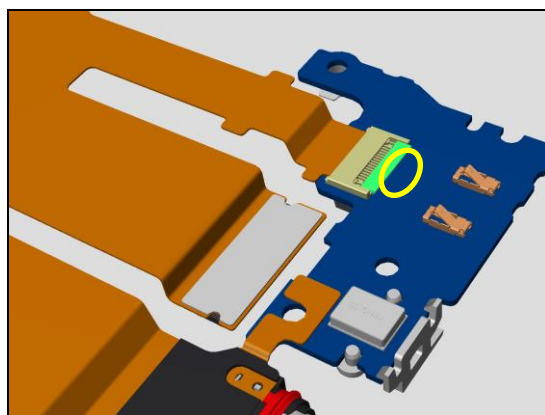
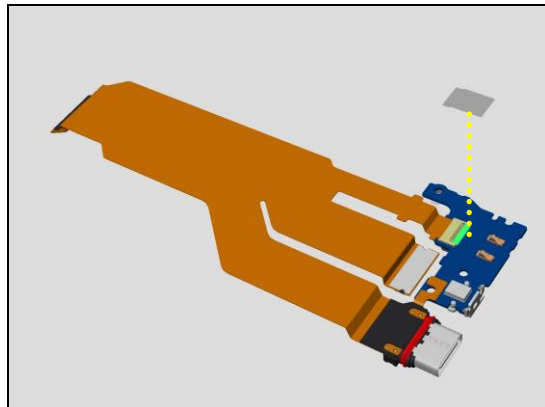
### 4.11 PBA Sub

Remove the Sheet PBA Sub.

Unlock the ZIF connector from yellow circle side.  
Remove the Sheet PBA Sub A.

Remove the Holder MIC 1st Assy.

Remove the Sheet PBA Sub A.



### 4.12 Ant WLAN Assy

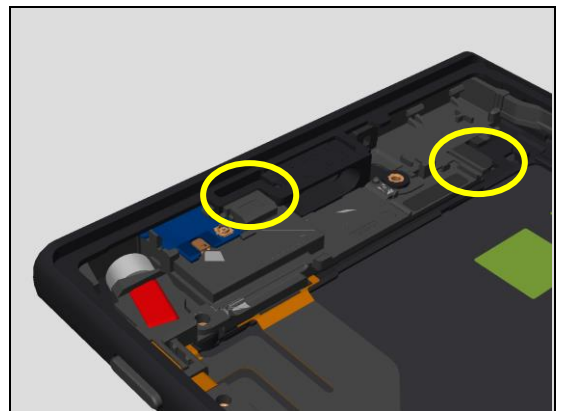
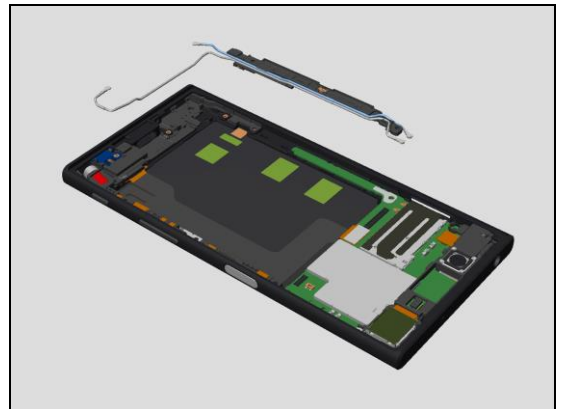
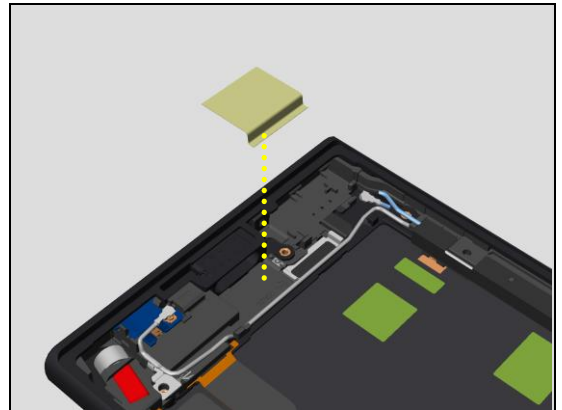
Remove the Sheet Relay USB.

Disconnect the Ant WLAN Assy RF connector on the PBA Ant.

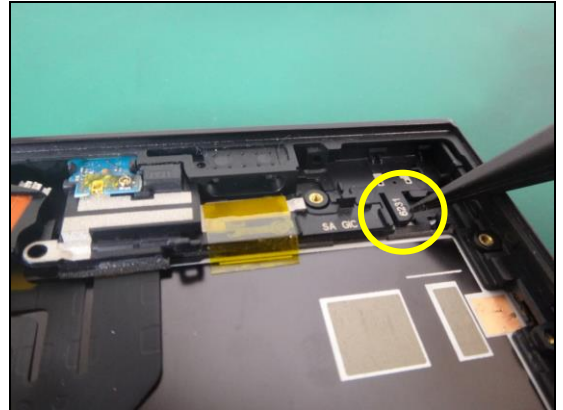
Remove the Ant WLAN Assy.

### 4.13 Ant Main Assy

Remove the Ant Main Assy is fixed by hook and the Adhesive WR Speaker Duct on the Cover Main Assy where is marked by yellow circle.

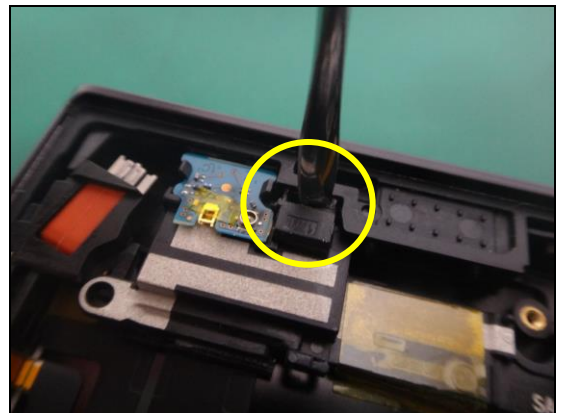


Unlock the hook to insert the tool.

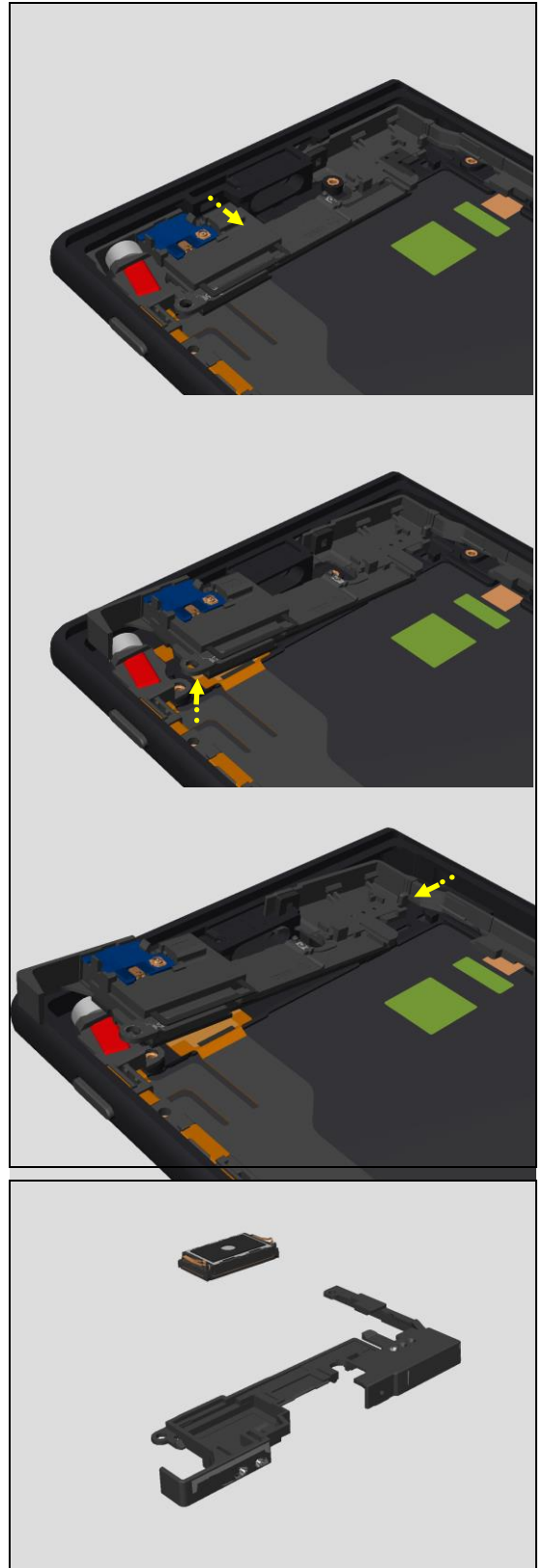


Pull the Ant Main Assy and cut the Adhesive WR Speaker Duct.

**Note! Don't touch the Ant Main Assy and the Cover Main Assy to avoid damages.**



Remove the Ant Main Assy as shown procedure.



### 4.14 Speaker

Remove the Speaker.

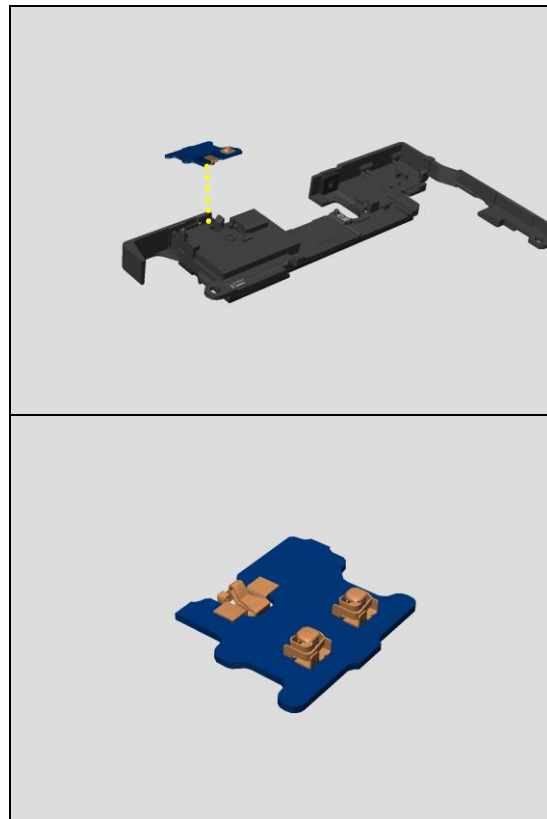
**Scrap! Don't reuse the Speaker.**



### 4.15 PBA Ant

Remove the PBA Ant.

**Note! Especially take care the Spring pins on another side.**



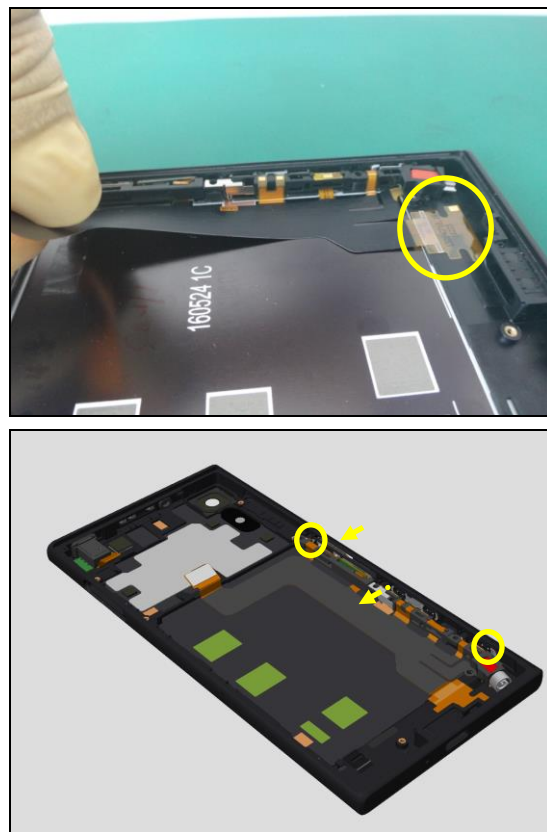
### 4.16 FP Sensor Assy

Peel the FPC Key Assy gently from the Cover Main Assy.

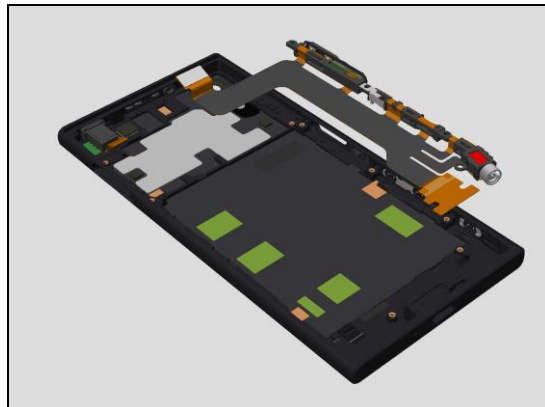
**Note! Especially take care yellow circle part.**

Pry the FPC Key Assy marked yellow circle and push the FP Sensor Assy with finger.

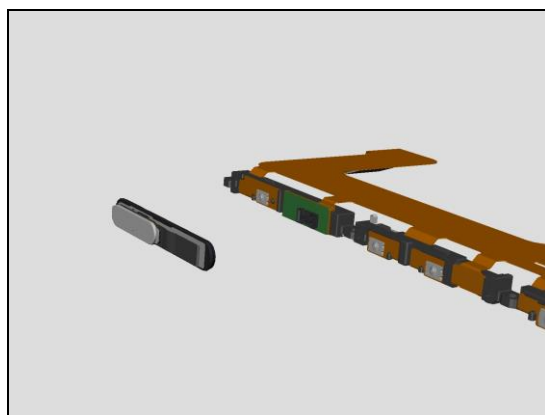
**Note! Take care the FPC Key Assy FPC B to B.**



Remove the FPC Key Assy.

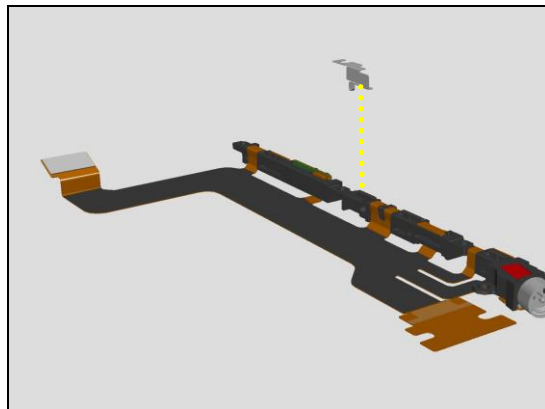


Disconnect the FP Sensor Assy B to B.



### 4.17 FPC Key Assy

Remove the Plate Holder Key.



### 4.18 FPC JK Module

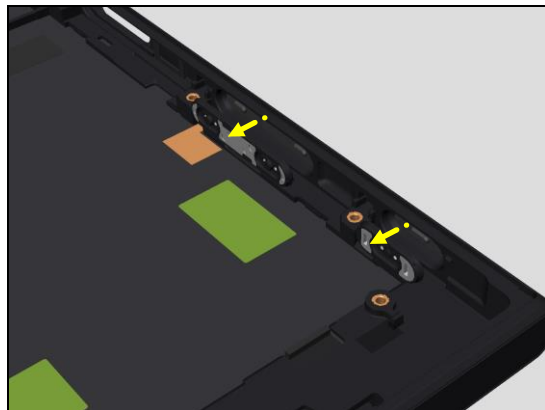
Remove the FPC JK Module.



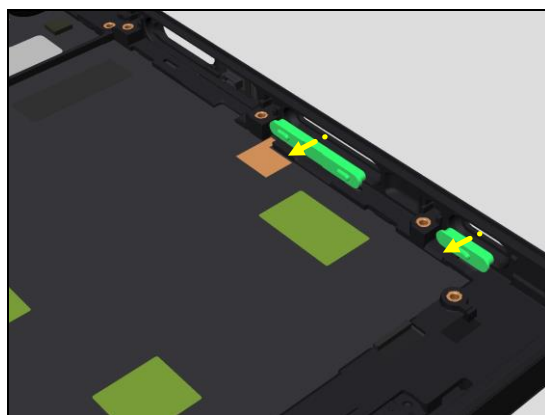


### 4.19 Cover Main Assy

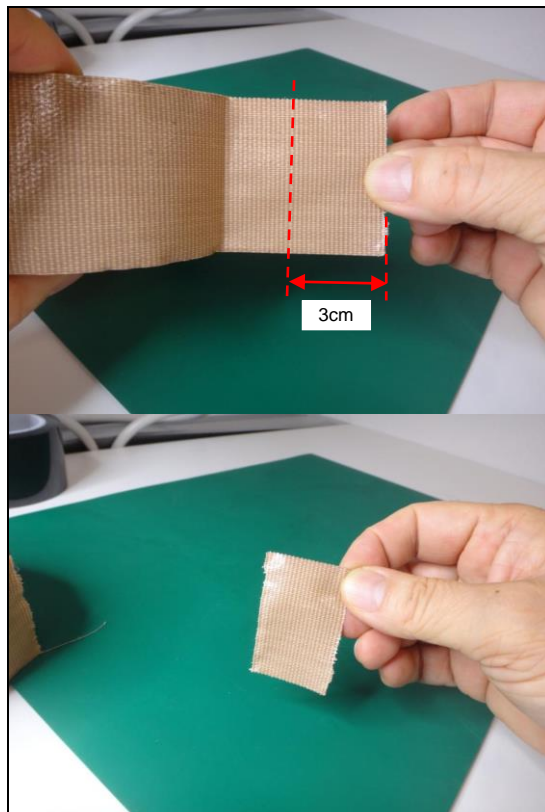
Remove the Gasket Camera and the Gasket Volume.



Remove the Key Camera and the Key Volume.



Cut the 3cm the Strong brown Packaging tape to 3cm.



## Disassembly

Roll the Reinforced the Strong brown Packaging tape so that adhesive becomes outside as shown.



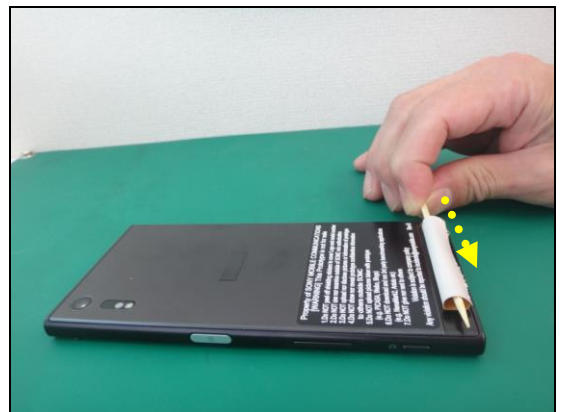
Rolled the the Strong brown Packaging tape as shown.



Affix the Rolled the Strong brown Packaging tape on the Panel Rear Bottom.

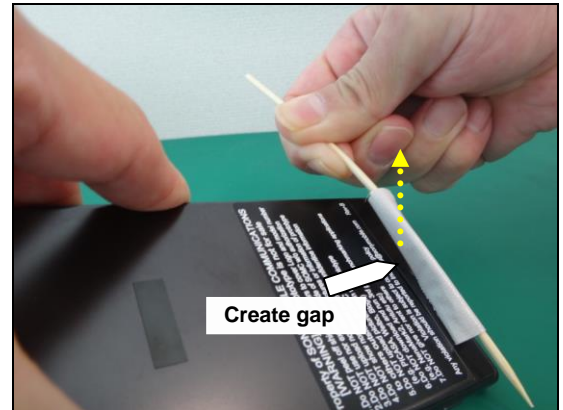


Insert the Bamboo Skewer into the Rolled the Strong brown Packaging tape.



## Disassembly

Pull up the Panel Rear Bottom with the the Strong brown Packaging tape.



Insert the Disassembly sheet.

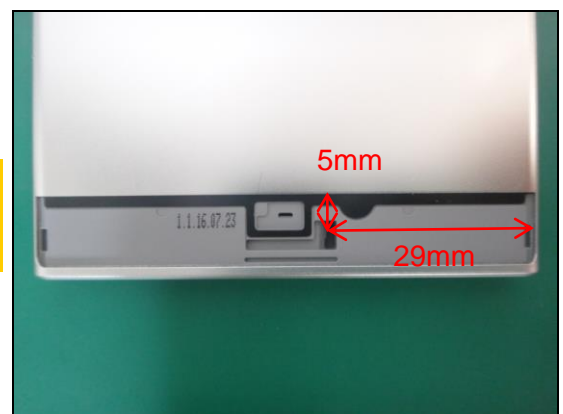


Slid the Disassembly Sheet as shown then remove the Panel Rear Bottom.



**Note! If cannot pull up with the Tape. Insert the Dentist Hook to the Panel Bottom location as shown.**

**Scrap!**

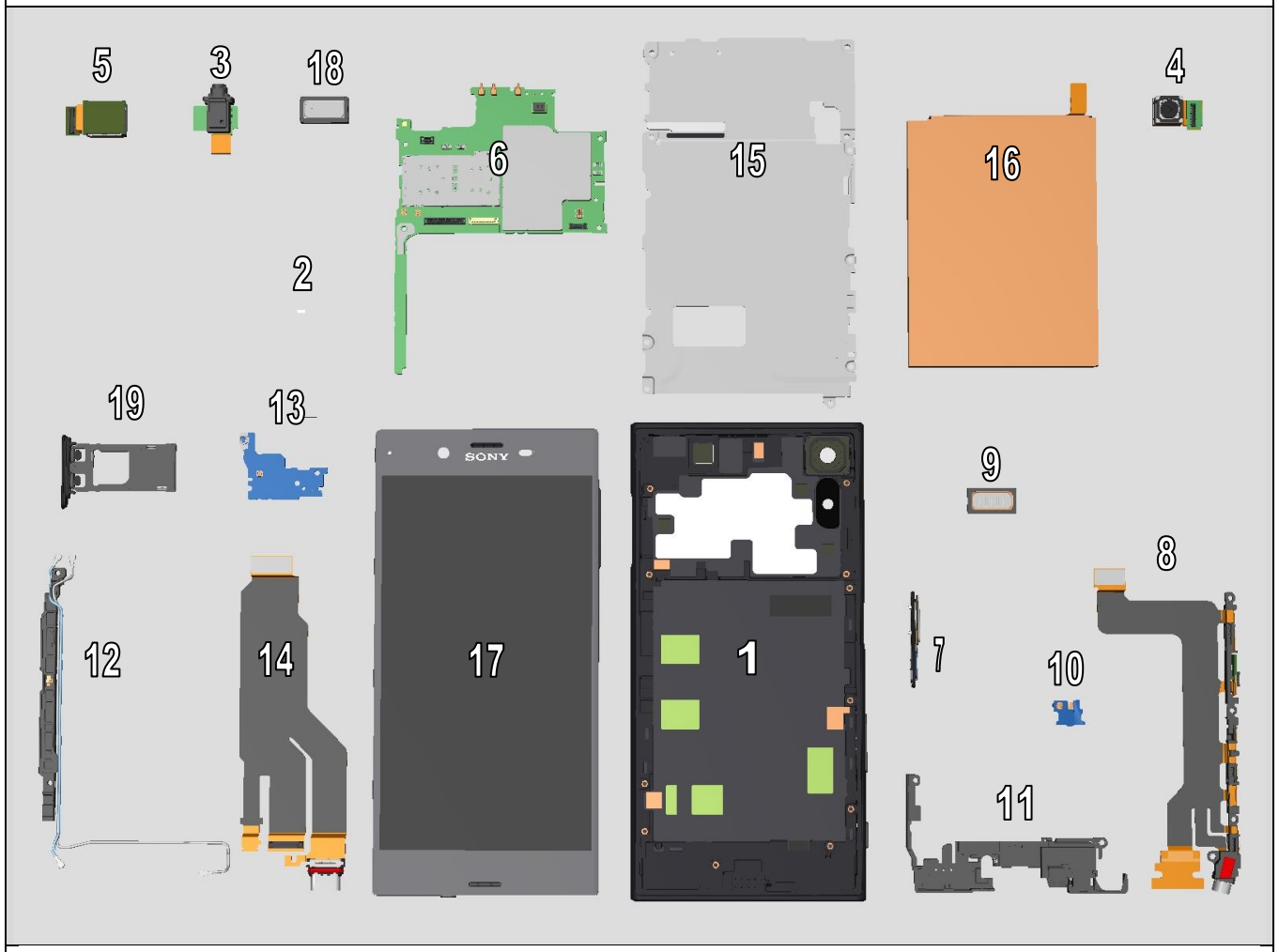


Remove the Sheet WR Test.



## 5 Reassembly

- |                        |                  |
|------------------------|------------------|
| 1. Cover Main Assy     | 16. Battery      |
| 2. Liquid Indicator    | 17. Display assy |
| 3. FPC JK Module       | 18. Loudspeaker  |
| 4. FICTIVE Sub Camera  | 19. CapTray Assy |
| 5. FICTIVE Main Camera |                  |
| 6. PBA complete        |                  |
| 7. FP Sensor Assy      |                  |
| 8. FPC Key Assy        |                  |
| 9. Speaker             |                  |
| 10. PBA Ant            |                  |
| 11. Ant Main Assy      |                  |
| 12. Ant WLAN Assy      |                  |
| 13. PBA Sub            |                  |
| 14. FPC Relay Assy     |                  |
| 15. Plate Display Assy |                  |



## Reassembly

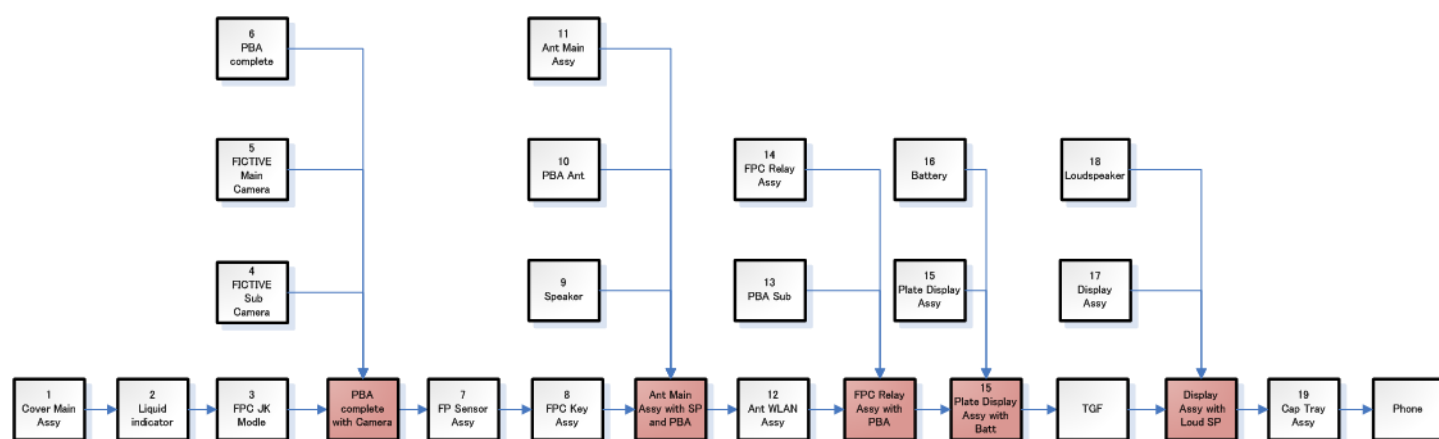
Reassembly Quick Reference Chart is embedded.

Required reassembly procedures of specific part replacement can be identified by Reassembly Quick Reference Chart.

Red color boxes are assembled part. Others are target part.



Adobe Acrobat  
Document



1	Cover Main Assy	1	3	6	7	8	11	12	14	15	17	19	
2	Liquid indicator	2		6					15	17	19		
3	FPC JK Module		3	6					15	17	19		
4	FICTIVE Sub Camera			4	6				15	17	19		
5	FICTIVE Main Camera			5	6				15	17	19		
6	PBA complete		4	5	6				15	17	19		
7	FP Sensor Assy					7	8	11	12	14	15	17	
8	FPC Key Assy					8		11	12	14	15	17	
9	Speaker						9	11	12	14	15	17	
10	PBA Ant							10	11	12	14	15	17
11	Ant Main Assy							11	12	14	15	17	
12	Ant WLAN Assy							12		14	15	17	
13	PBA Sub								13	14	15	17	
14	FPC Relay Assy								14	15	17		
15	Plate Display Assy								15	16	17		
16	Battery									16	17		
17	Display assy										17	18	
18	Loudspeaker											18	
19	Cap Tray Assy											19	

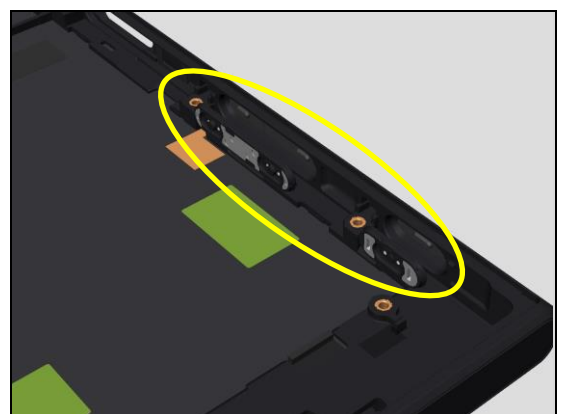
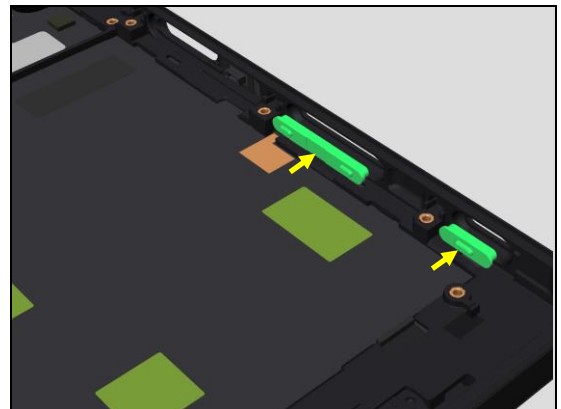
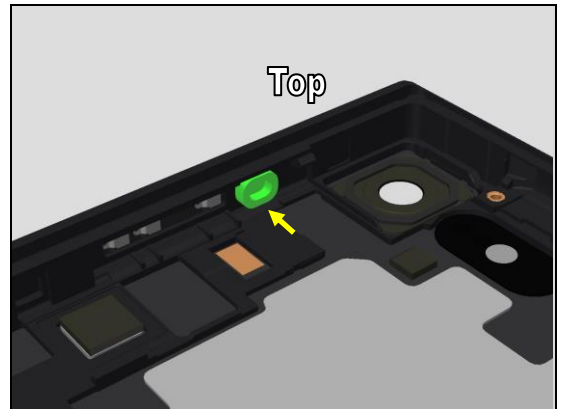
### 5.1 Cover Main Assy

Affix the Sheet WR MIC on the Cover Main Assy Top side and Bottom side.

Press the Sheet WR MIC with finger.

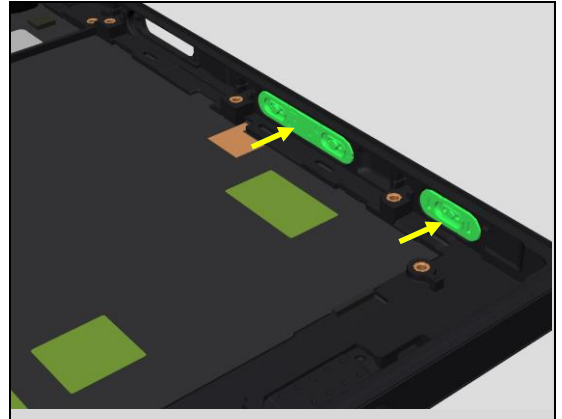
Install the Key Camera and the Key Volume on the Cover Main Assy.

Install the Gasket Camera and the Gasket Volume on the Cover Main Assy.



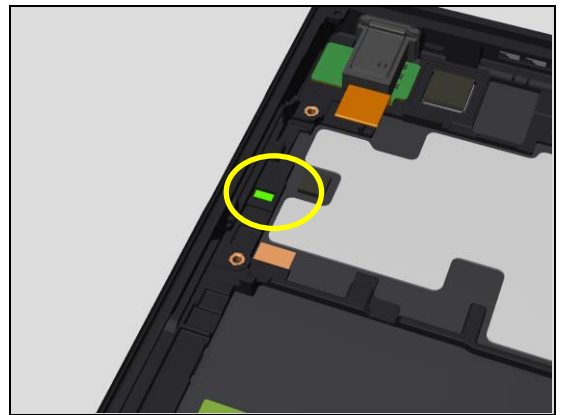


Press the Gasket Camera and the Gasket Volume with finger.



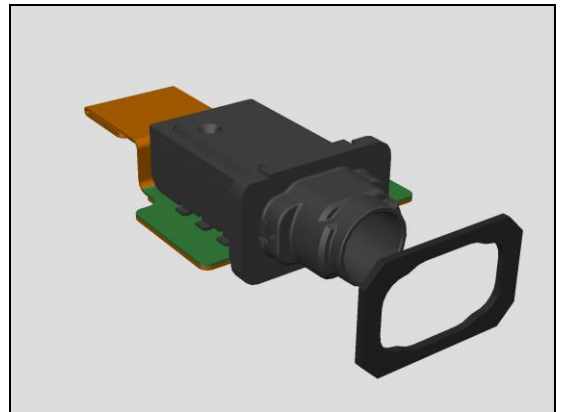
### 5.2 Liquid indicator

Affix the Liquid indicator on the Cover Main Assy.



### 5.3 FPC JK Module

Affix the Adhesive WP Audio Jack on the FPC JK Module.



Install the FPC JK Module on the unit.

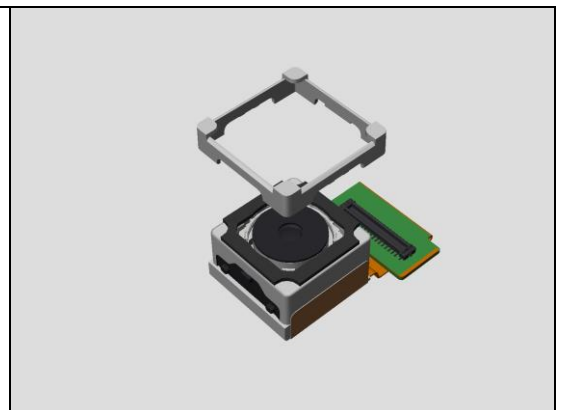


Press the FPC JK Module for 10 seconds with finger.



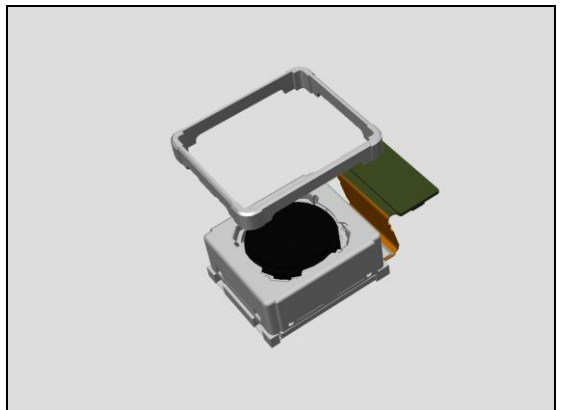
### 5.4 FICTIVE Sub Camera

Install the Holder Sub Camera on the FICTIVE Sub Camera.



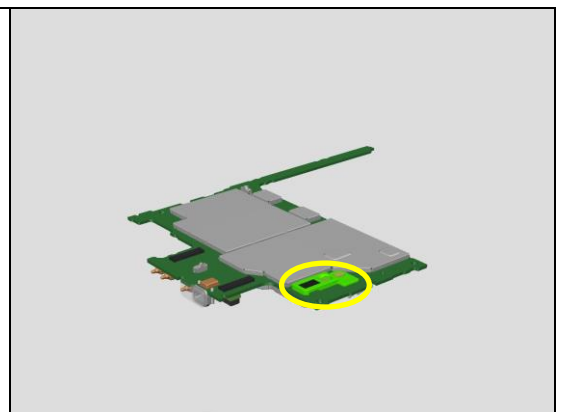
### 5.5 FICTIVE Main Camera

Install the Holder Main Camera on the FICTIVE Main Camera.



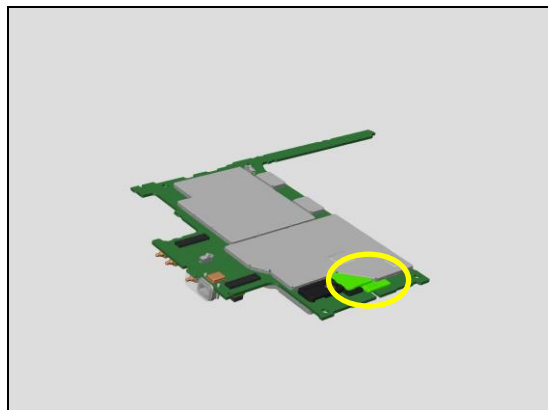
### 5.6 PBA complete

Install the Holder Sensor on the PBA complete.



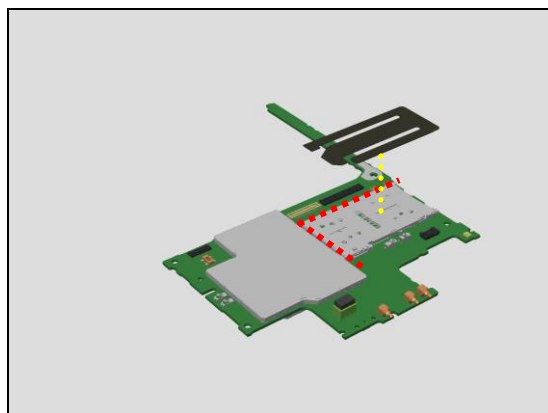
## Reassembly

Install the Lens Flash on the PBA complete.

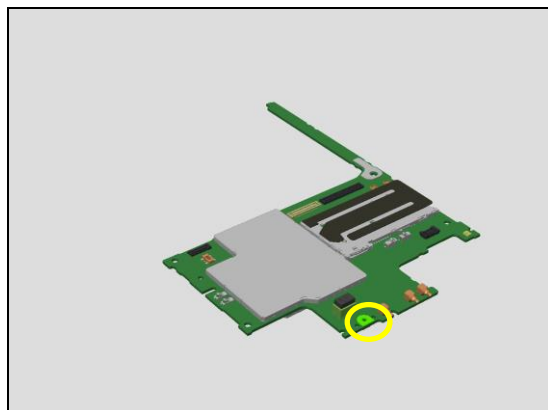


Affix the Sheet Guide MOP on the PBA complete as red line.

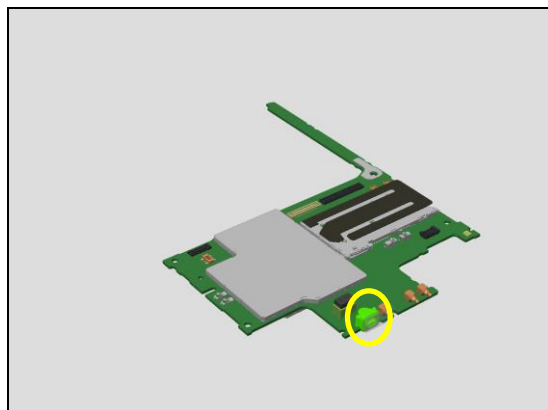
**Note! Make sure to align the red line as shown**



Affix the Adhesive Holder MIC 2nd on the PBA complete.

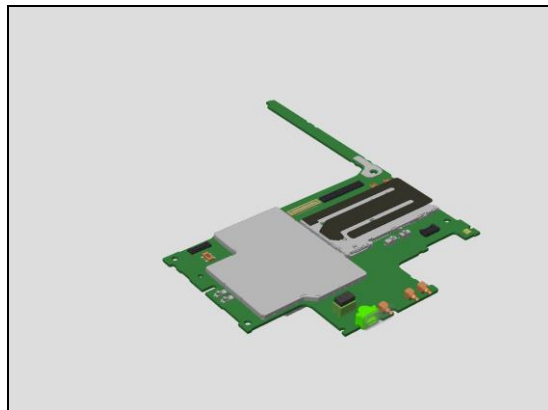


Install the Holder MIC 2nd on the PBA complete.

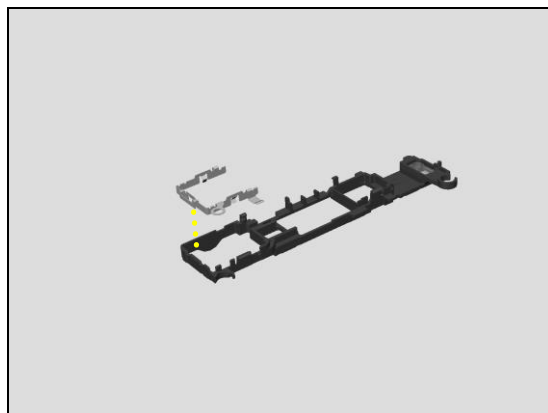


## Reassembly

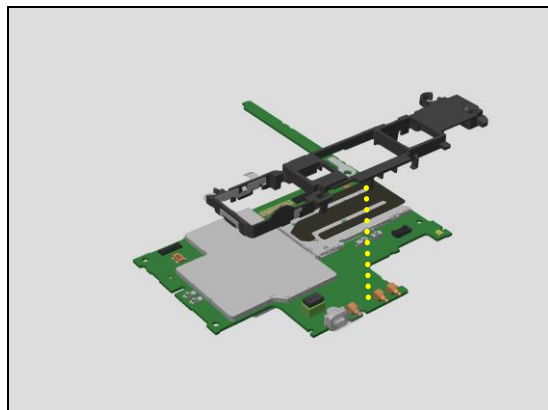
Press the Holder MIC 2nd for 10 seconds with finger.



Install the Shield Camera Main on the Holder Top Assy.



Install the Holder Top Assy on the PBA complete.

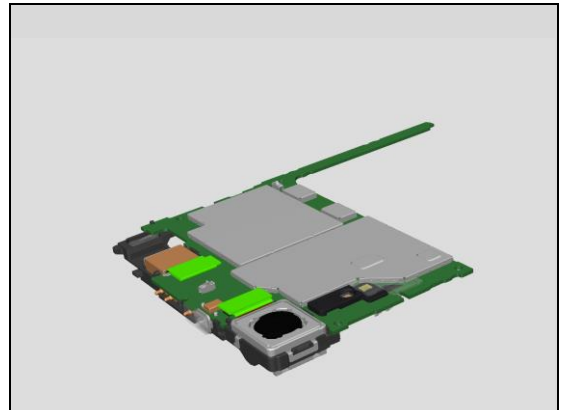


Install the FICTIVE Sub Camera and the FICTIVE Main Camera on the PBA complete.



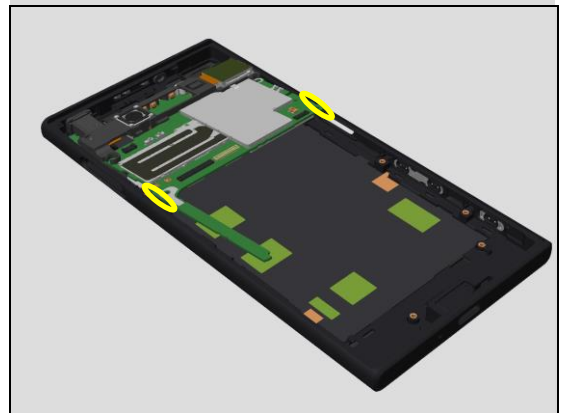
## Reassembly

Connect the FICTIVE Sub Camera B to B and the FICTIVE Main Camera B to B to the PBA complete.



Place the PBA complete.

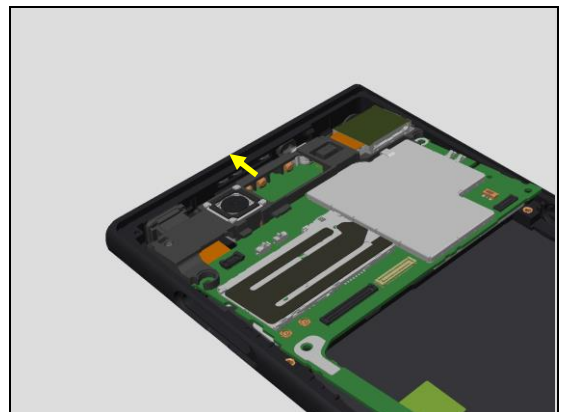
**Note! Don't touch except yellow circle area.**



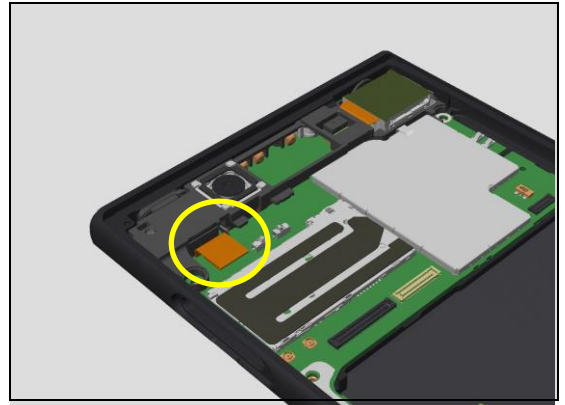
Insert the FPC JK Module FPC to between the PBA complete and the Holder Top Assy



Install the PBA complete as shown procedure.



Connect the FPC JK Module B to B to the PBA complete.

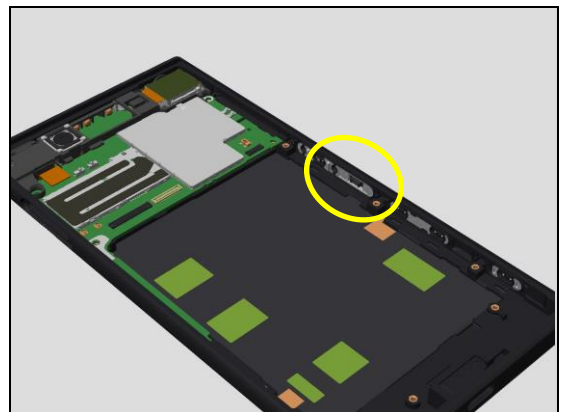


### 5.7 FP Sensor Assy

Install the FP Sensor Assy on the unit.

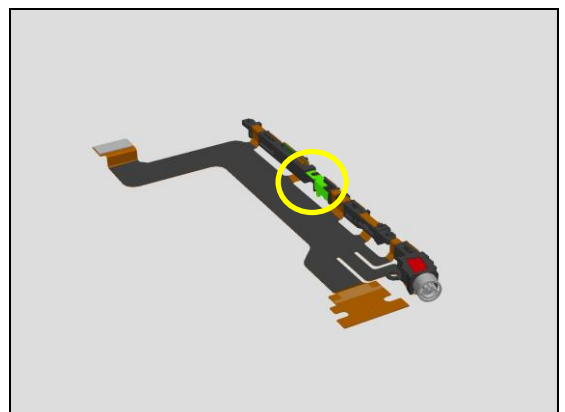


Press the FP Sensor Assy with finger.



### 5.8 FPC Key Assy

Put the Plate Holder Key on the FPC Key Assy.



## Reassembly

Connect the FPC Key Assy to the FP Sensor Assy.



Fold the FPC Key Assy FPC around FP sensor B to B as shown.



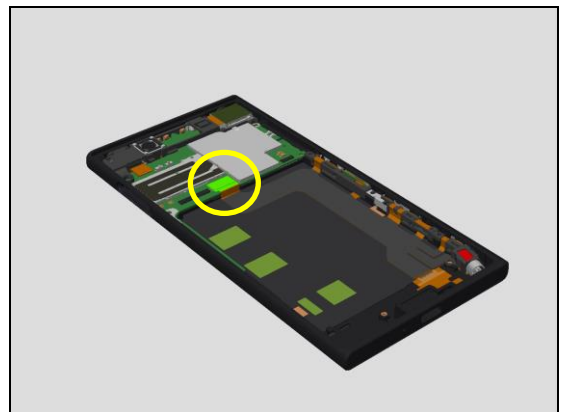
Install the FPC Key Assy on the unit.

**Note! Make sure the Screw holes alignment.**

**If reuse the Cover Main Assy, affix the Adhesive FPC Key first.**



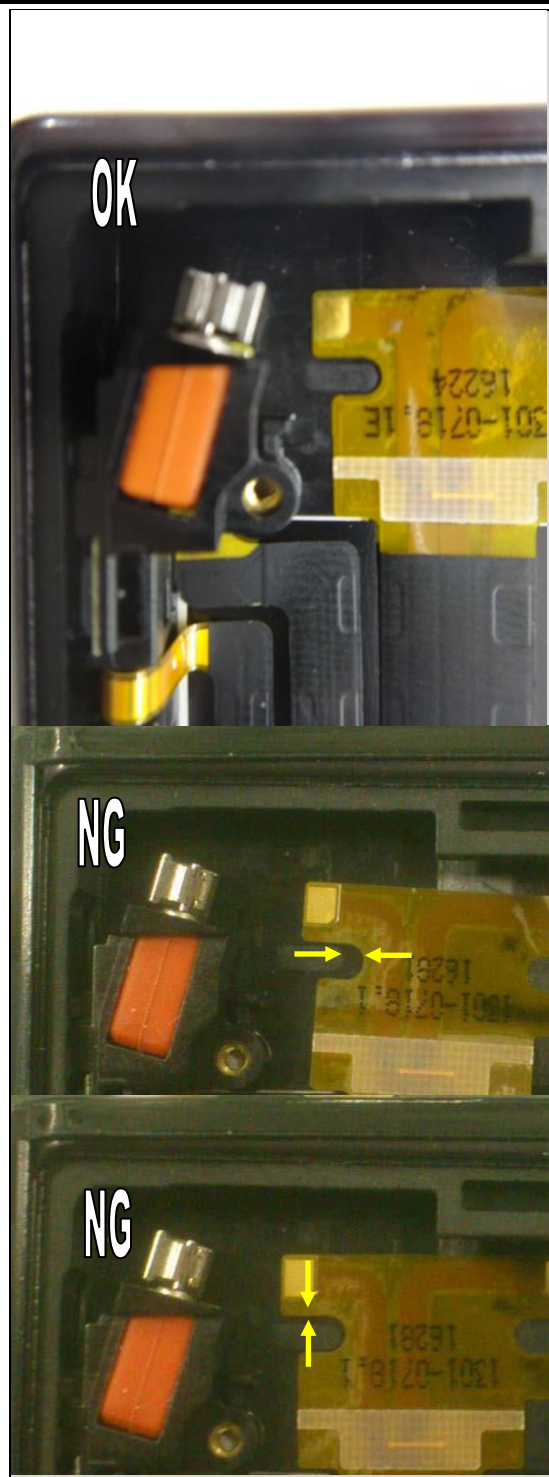
Connect the FPC Key Assy B to B to the PBA complete.



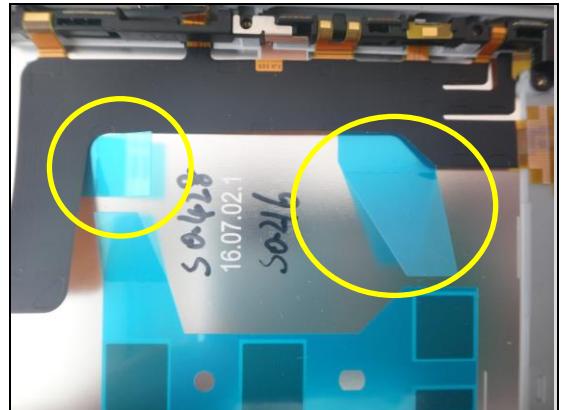


Affix the FPC Key Assy Vib and FPC on the unit.

**Note! Make sure Alignment the FPC Key Assy**



Pull the Release sheet under the FPC Key Assy to affix on the Cover Main Assy.



### 5.9 Speaker

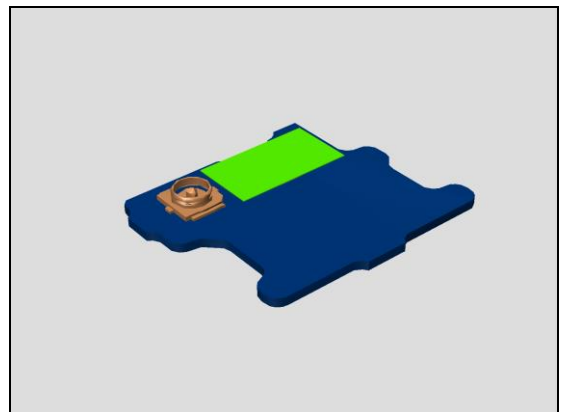
Affix the Adhesive WR Speaker Bottom on the Speaker.



### 5.10 PBA Ant

Affix the Sheet PBA Ant on the PBA Ant.

**Note! Especially take care the Spring pin on another side.**



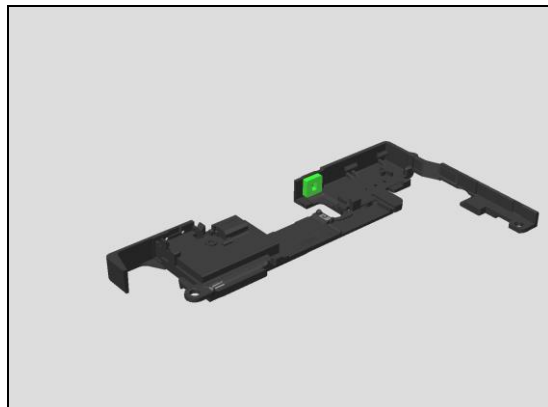
Affix the Spacer Ant Main PBA Spring on the PBA Ant.

**Note! Especially take care the Spring pin on another side.**

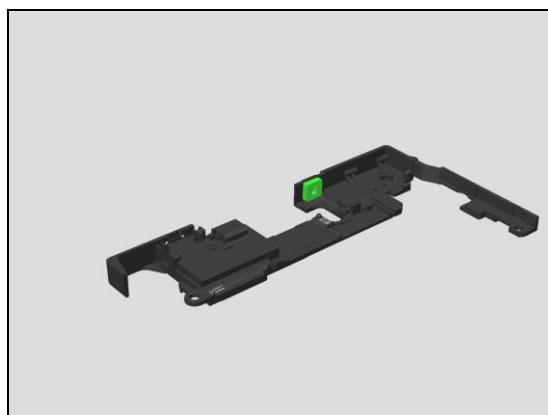


### 5.11 Ant Main Assy

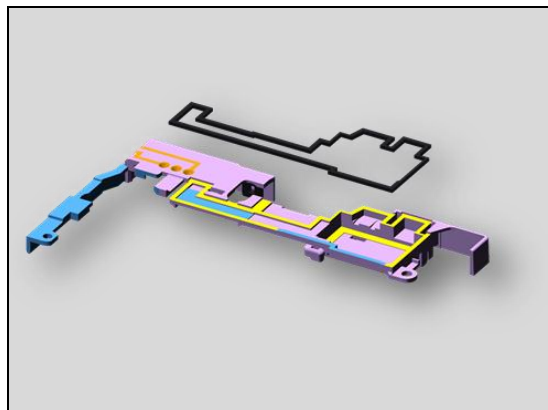
Affix the Cushion Holder MIC 1<sup>st</sup> on the Ant Main Assy.



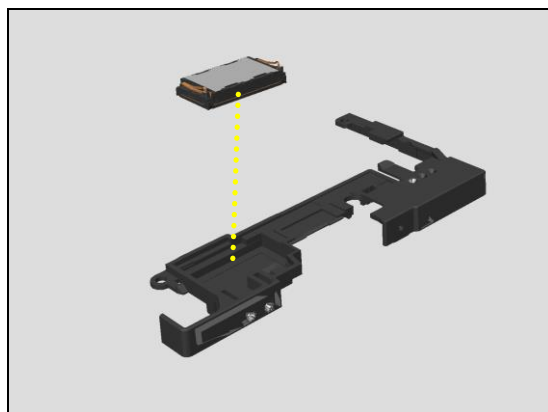
Press the Cushion Holder MIC 1<sup>st</sup> with finger.



Affix the Cushion Ant Main on the yellow marked area of the Ant Main Assy.

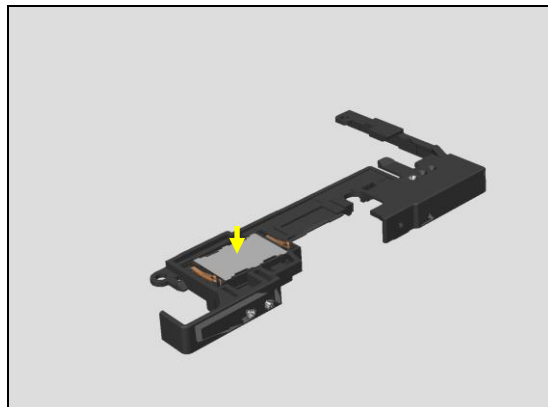


Install the Speaker on the Ant Main Assy.

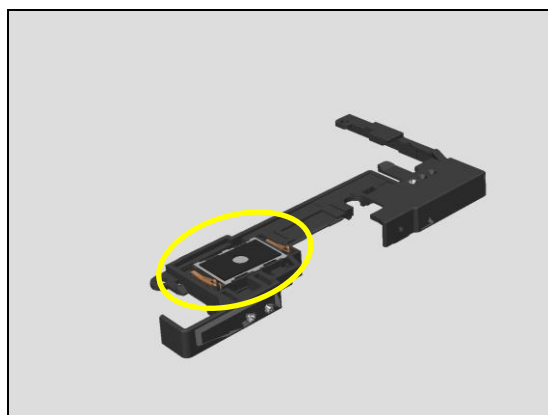


## Reassembly

Press the Speaker for 10 seconds with finger.

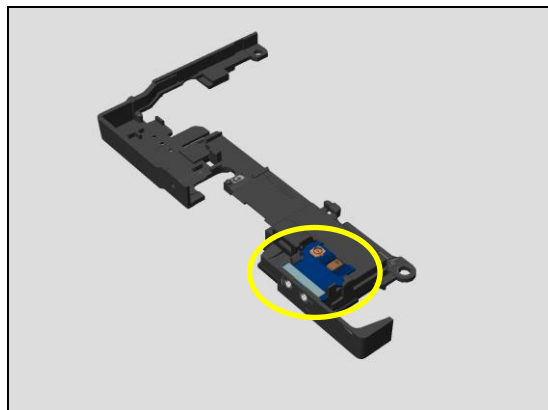


Affix the Cushion Speaker Bottom on the Speaker.

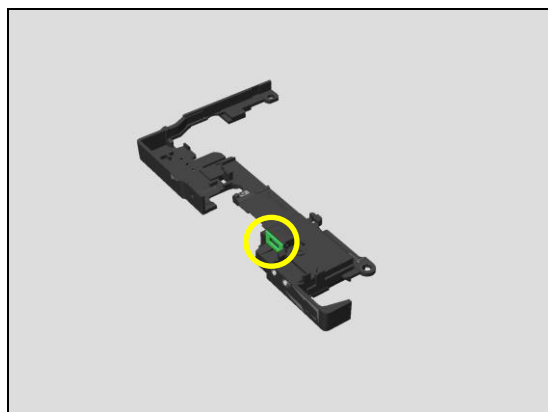


Install the PBA Ant on the Ant Main Assy.

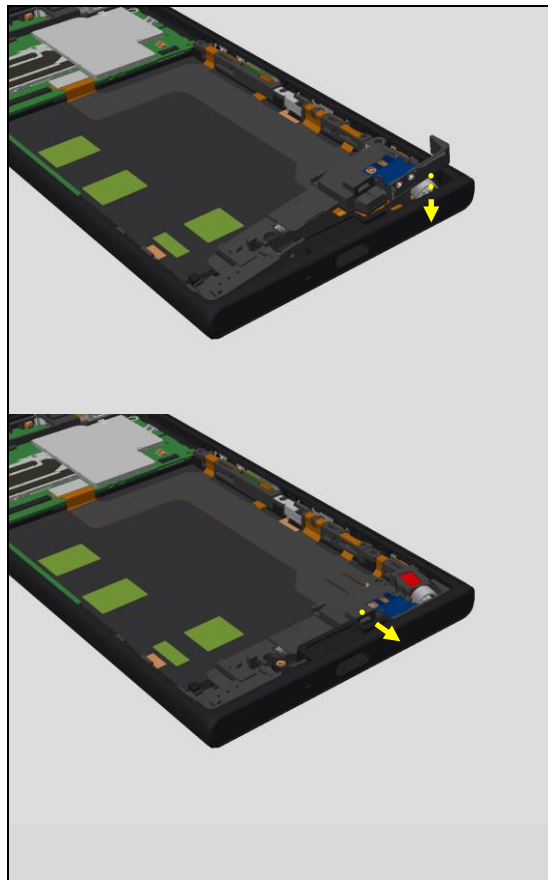
**Note! Especially take care the Spring pin on another side.**



Affix the Adhesive WR Speaker Duct on the Ant Main Assy

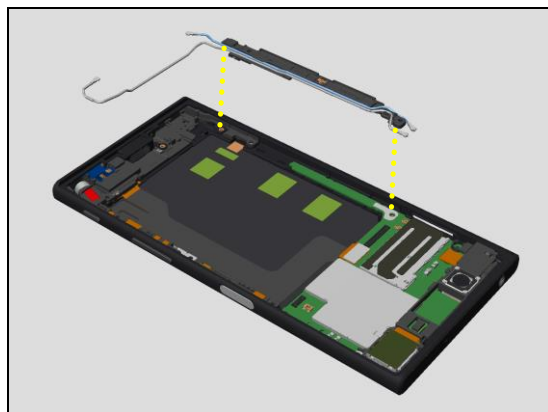


Install the Ant Main Assy as shown procedure.



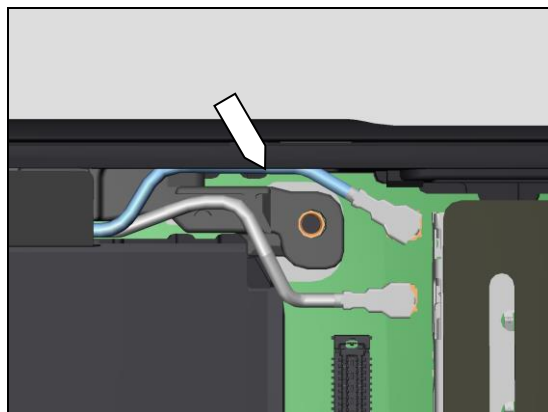
### 5.12 Ant WLAN Assy

Install the Ant WLAN Assy on the unit.

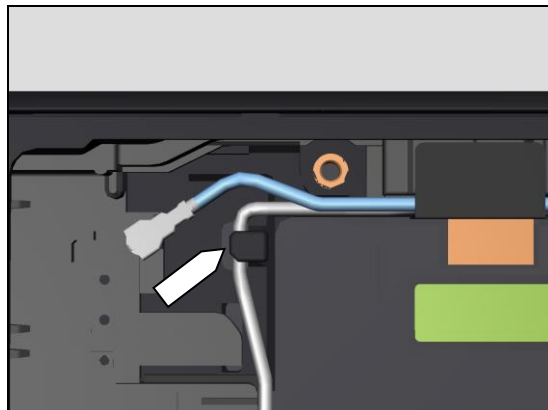


Connect the 2RF connectors to the PBA complete as shown.

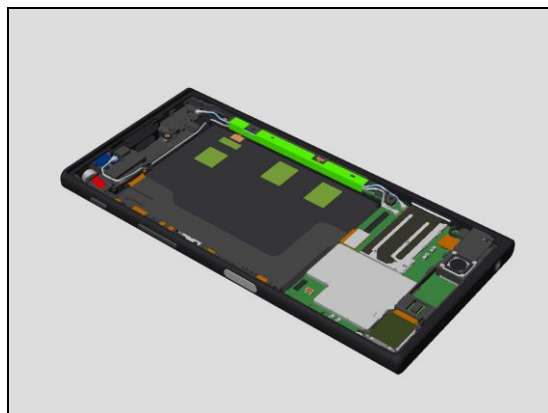
**Note! Make sure cable routing as shown.**



**Note! Make sure cable routing as shown.**

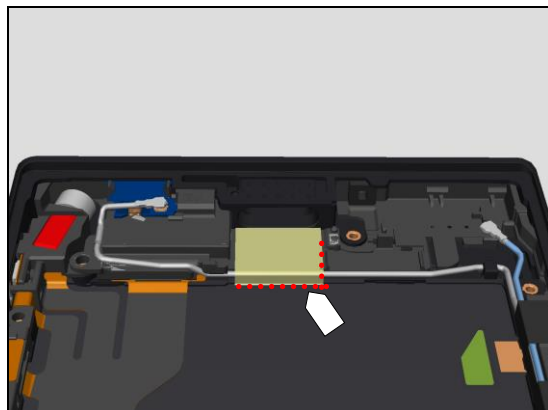


Affix the Sheet Battery Wlan Sub on the unit.



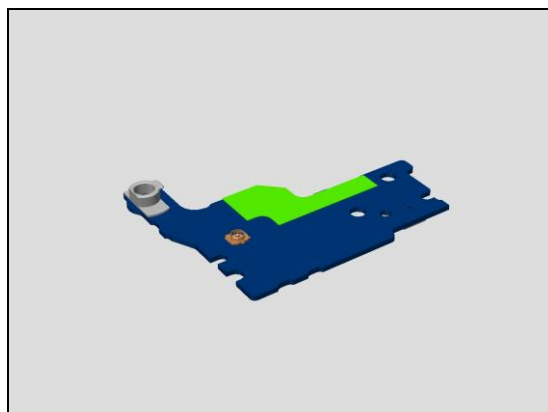
Affix the Sheet Relay USB on the unit.

**Note! The Sheet Relay USB must be aligned with red line.**

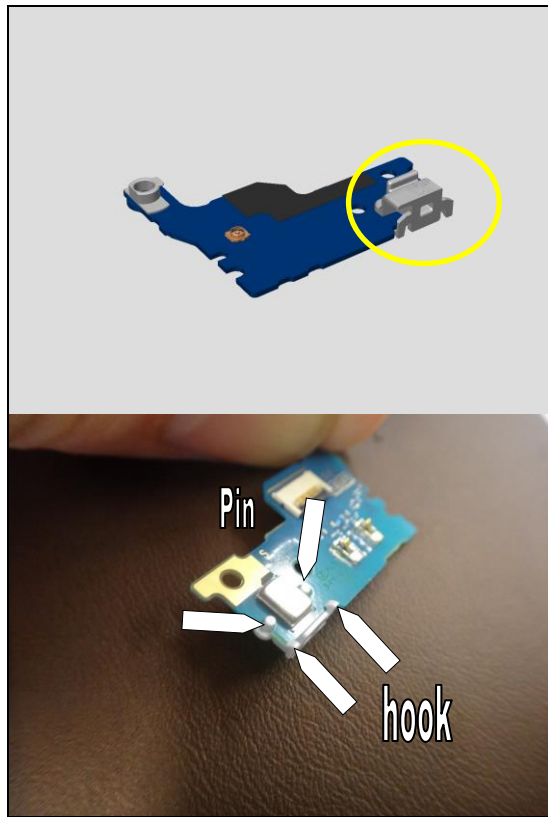


### 5.13 PBA Sub

Affix the Sheet PBA Sub A on the PBA Sub.

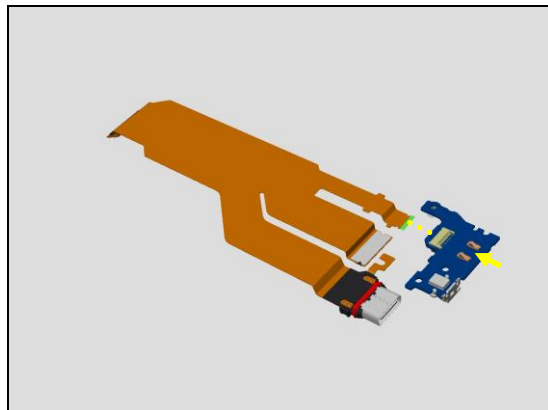


Install the Holder MIC 1st Assy on the PBA Sub.  
Assemble hook as first and then insert pin.

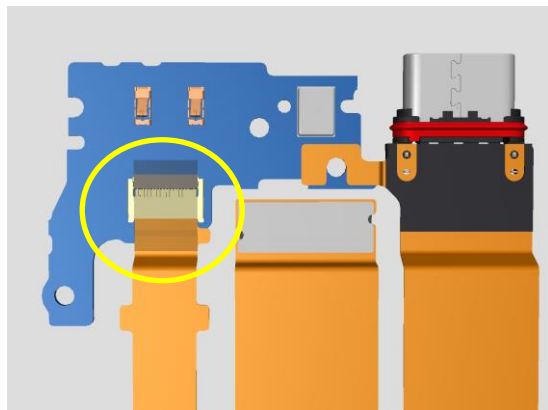


### 5.14 FPC Relay Assy

Connect and lock the PBA Sub ZIF to the FPC Relay Assy.



Affix the Sheet PBA Sub on the FPC Relay Assy.

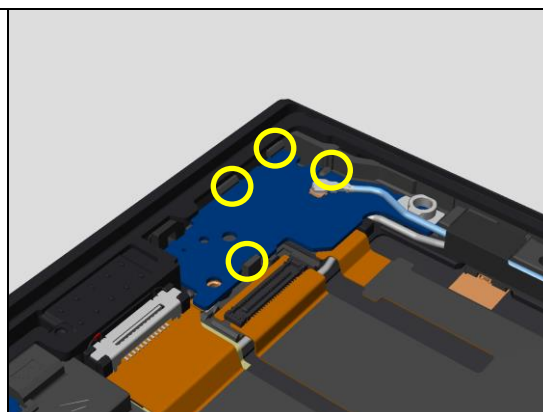




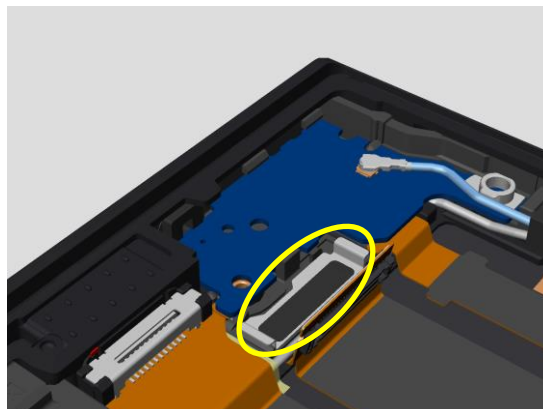
Insert the FPC Relay Assy USB to the unit.



Fix the PBA Sub 1 hook and 3 ribs on the Cover Main Assy.



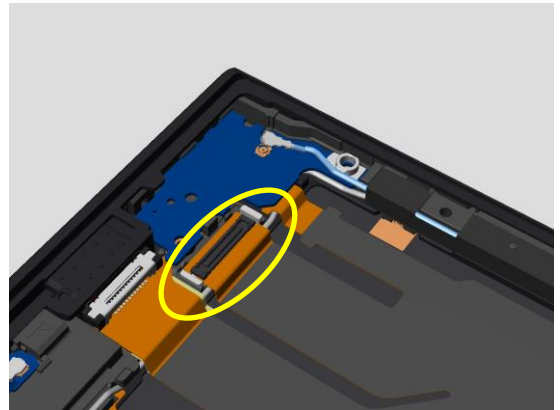
Install the Plate LCD B to B on the Cover Main Assy.



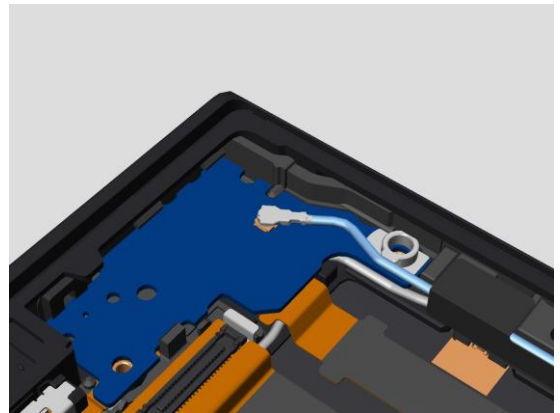
Connect the FPC Relay B to B to the PBA complete.



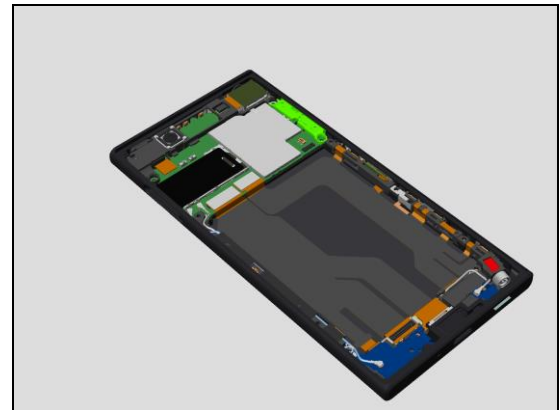
Install the FPC Relay B to B on the Plate LCD B to B.



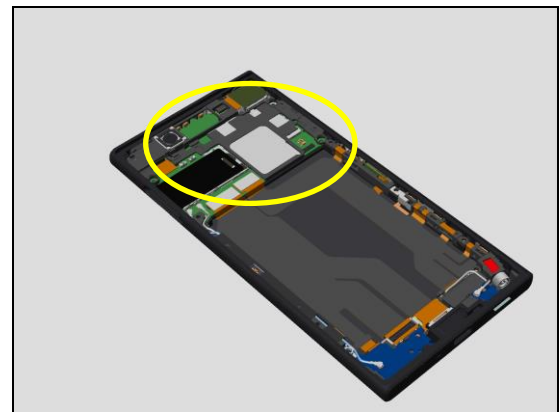
Connect the RF Cable to the PBA Sub.



Install the Ant WLAN Main on the unit..



Install the Holder Main PBA on the unit.



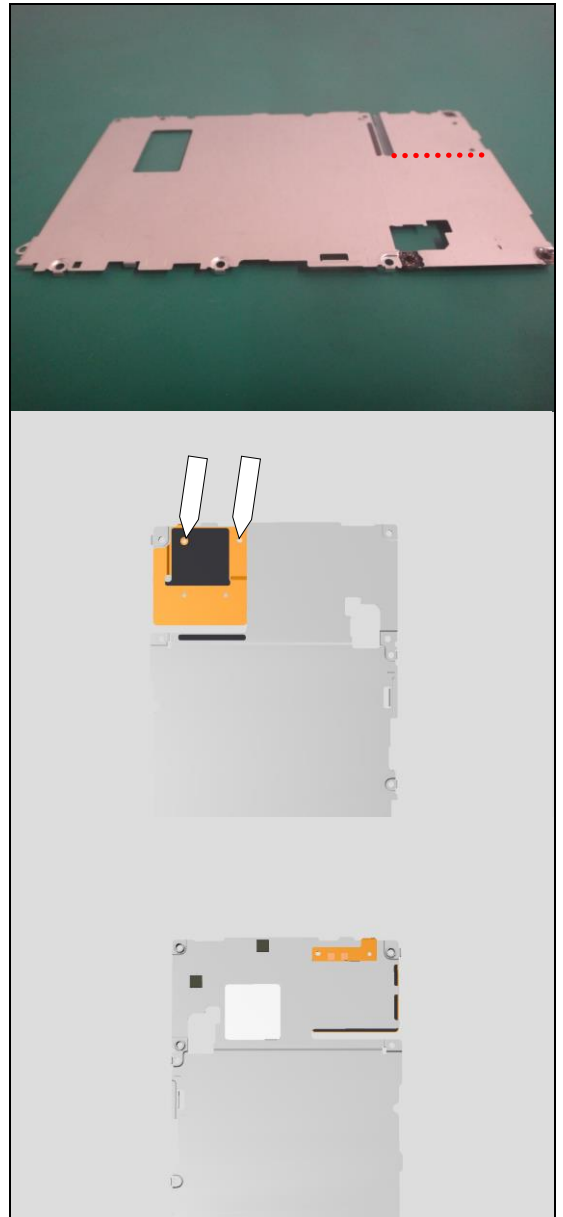
Install the Sheet Slider MOP as shown procedure.



### 5.15 Plate Display Assy

Affix the FPC NFC on the Plate Display.

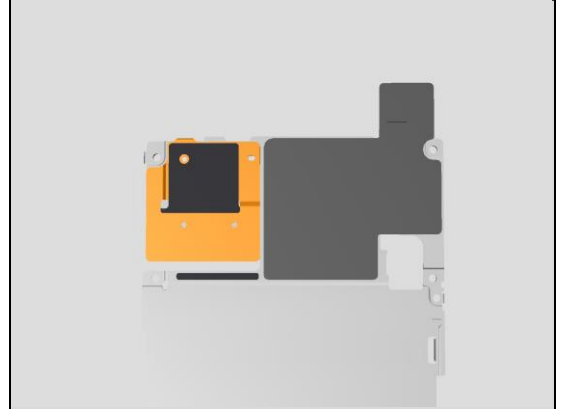
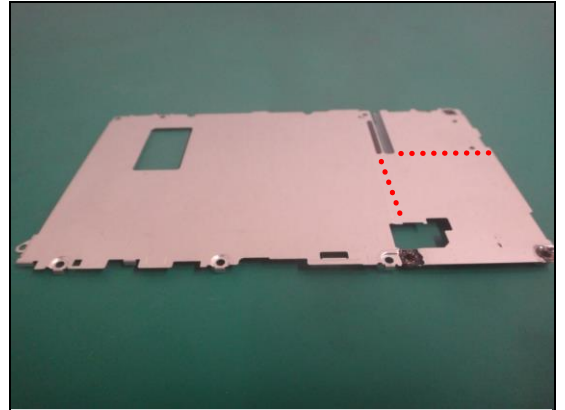
**Note! Make sure to align the dot and 2 holes on the Plate Display.**



## Reassembly

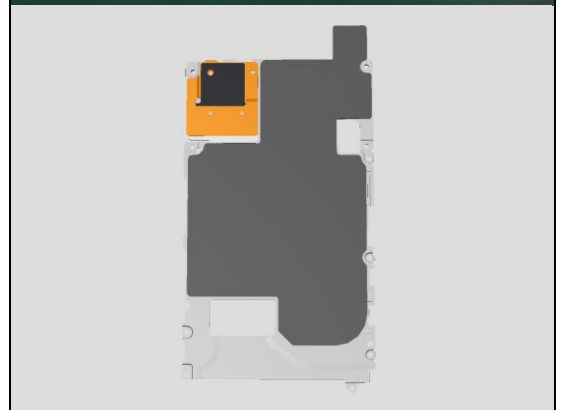
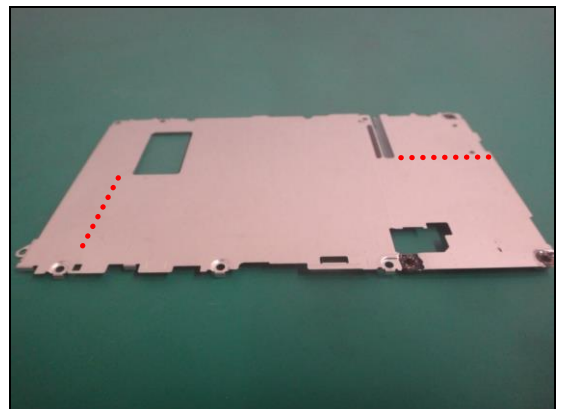
Affix the Graphite Camera on the Plate Display.

**Note! Make sure to align the dot on the Plate Display.**



Affix the Graphite Plate Display on the Plate Display.

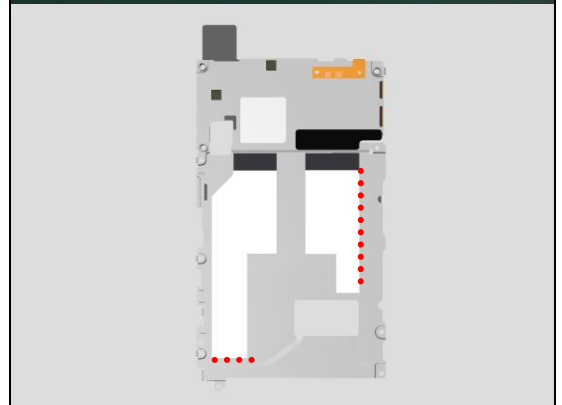
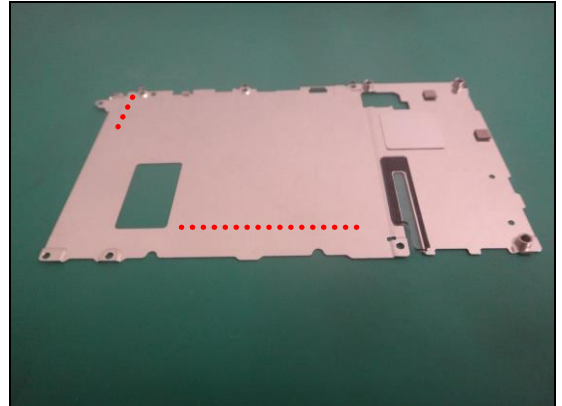
**Note! Make sure to align the dot on the Plate Display.**



## Reassembly

Affix the Adhesive Battery on the Plate Display.

**Note! Make sure to align the dots on the Plate Display.**

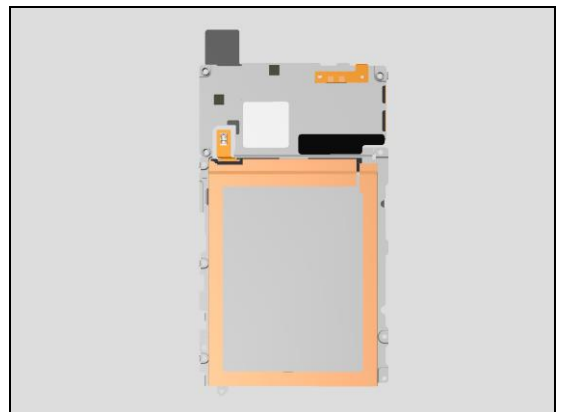


### 5.16 Battery

The Battery is installed on the Plate Display. If the Battery is not located at correct position, the B to B connector of the battery will not be able to connect.

Follow the procedure to install the battery on the proper position of the Plate Display.

In order to install the Battery on the proper position, the unit is utilized as tool for locating the Battery.



Place the 1<sup>st</sup> ESD Film on the unit to avoid damages to the Battery.

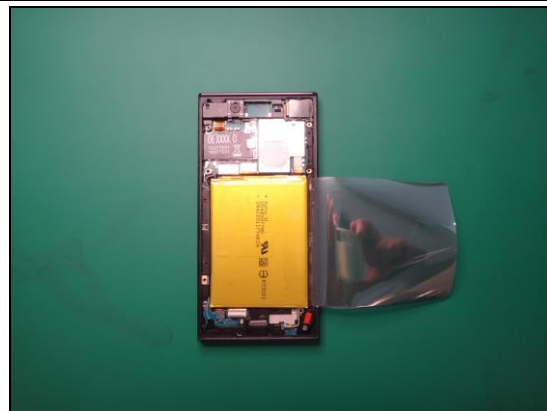
**Note! Cut the ESD Bag (1240-0884) make two pieces of 75mm x 145mm ESD Film.**

**Make sure to cover the Battery bottom side with ESD Film.**

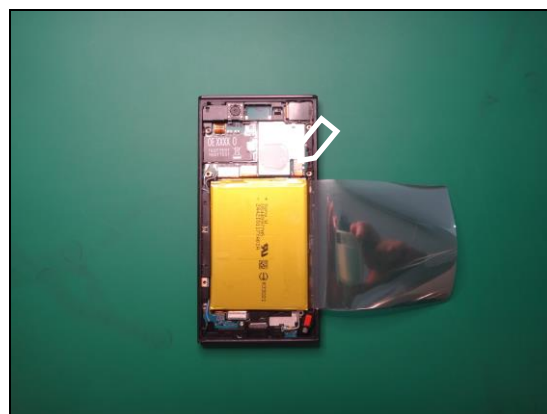


## Reassembly

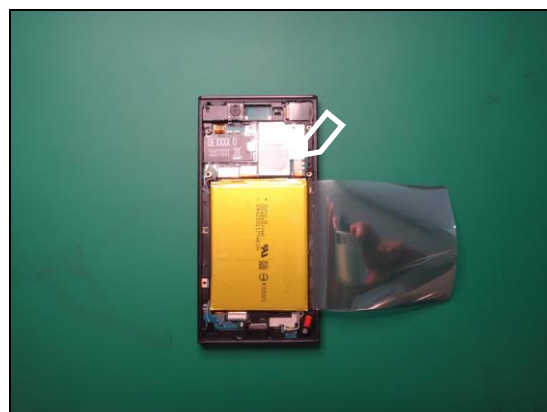
Install the Battery on the unit.



Connect the Battery B to B to the PBA complete for alignment.



Disconnect the Battery B to B from the PBA complete.



Place the 2<sup>nd</sup> ESD Film on the unit to avoid damages from the Plate Display to the Battery.

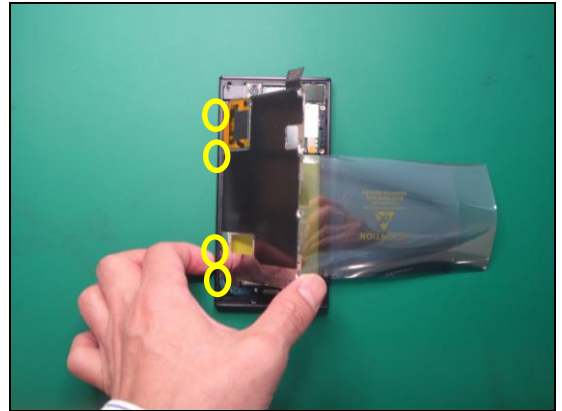




## Reassembly

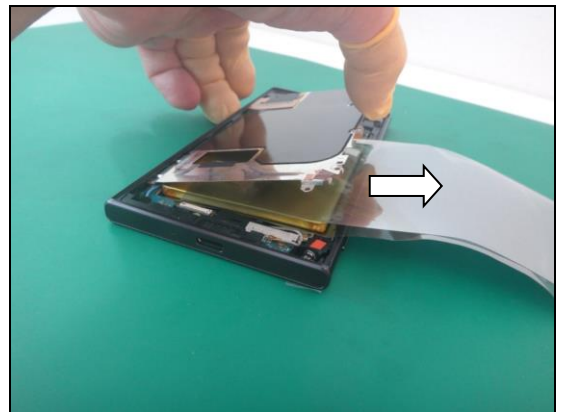
Install the Plate Display Assy on the Battery on the unit.

**Note! Make sure to align the 4 screw holes on the unit and the Plate Display.**

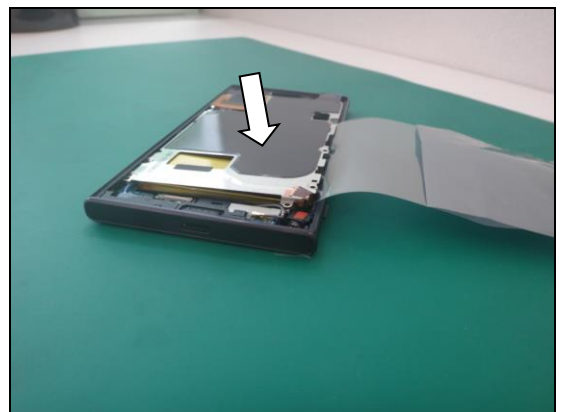


Pull the 2<sup>nd</sup> ESD Film from under the Plate Display assy.

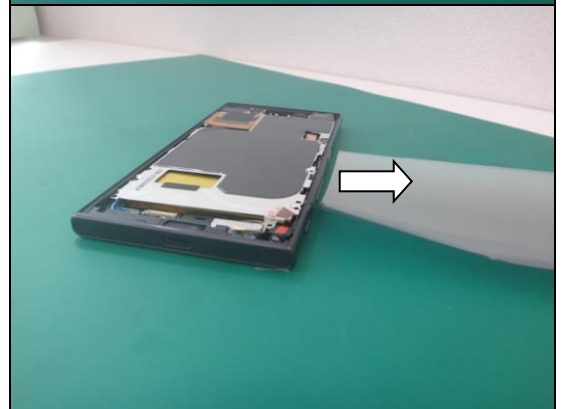
**Note! Bring the Plate Display as close as possible to the 2<sup>nd</sup> ESD Film to avoid damage to the Battery.**



Place the Plate Display Assy on the Battery.



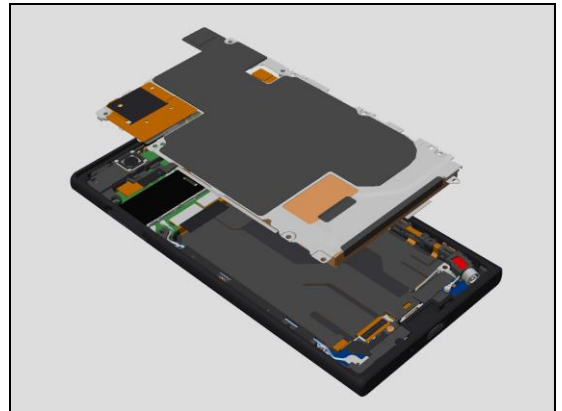
Pull the 1<sup>st</sup> ESD Film from under the Battery.



## Reassembly

Remove the Plate Display assy with the Battery from the unit.

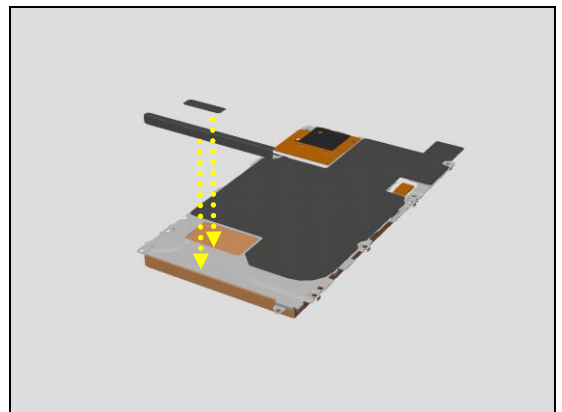
**Note! Avoid damages to the Battery when remove the Plate Display assy with Battery from the unit.**



Set the Press Clamp on the Battery.  
Align the Press Clamp with topside of the battery.  
Press the Battery for 10 seconds with the Press Clamp.



Affix the Sheet protection Plate display on the Battery and the Plate Display Assy.



### Thermal Gap Filler

**Prepare the new Thermal Gap Filler Syringe and Thermal Gap Filler Tube.**



## Reassembly

**Open the embedded Thermal Gap Filler instruction in attachment, and make sure to go through it prior to use!**



Confirm the expiration date that is stamped at the Thermal Gap Filler Tube end.

**Life is 6 month after manufacturing.**

X: Manufacturing Year (201X)

Y: Manufacturing Month (1,2,,,9, A, B, C)

Z: Manufacturing Date (1,2,,,9, A, B,,,V)

Ex) Lot.590 = Manufacturing date is September 24<sup>th</sup> 2015.

Open the tube with cap head

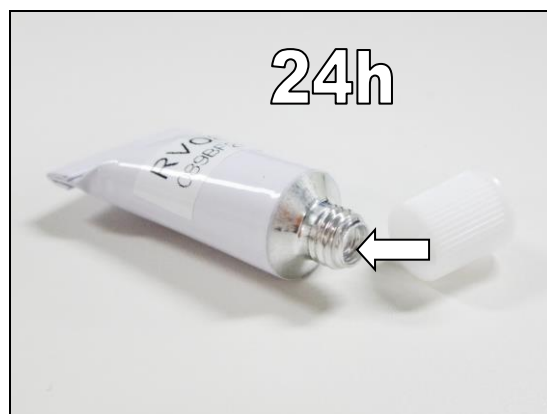
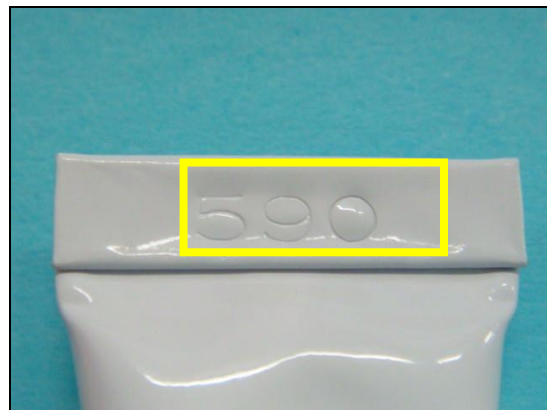
**Material will start to set once it is exposed to air.**

**Scrap! Thermal Gap Filler Tube cannot be used in 24h after opening.**

Fill the contents of the tube in to the syringe from the end of the syringe.

**Once filled in the syringe, must use within 1 hour.**

**Scrap! Thermal Gap Filler Syringe cannot be used 1hour after filling.**



## Reassembly

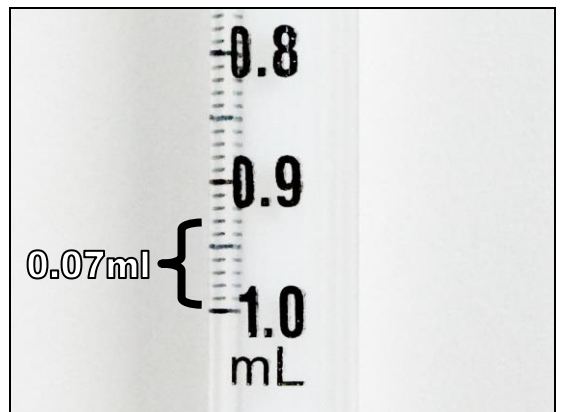
Make sure the contents reach up to the tip of the syringe and a small amount of the contents flows out as air is released.



Wipe off the tip before using.

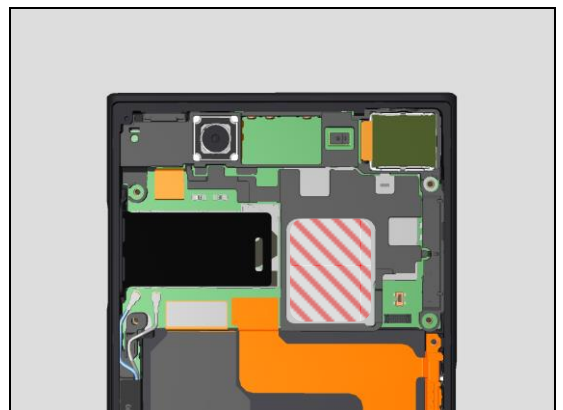


Applying volume for one unit is 0.07 ml.



Carefully apply the Thermal Gap Filler to center of red hatched area.

**The Plate Display Assy installing must be done immediately after applied Thermal Gap Filler (within 5 minutes).**



## Reassembly

Wipe off the tip of the syringe until next repair.

**Scrap! Don't refill the Thermal Gap Filler to the used syringe.**



Next time you use, let a small amount of contents flow out and wipe off the tip again.



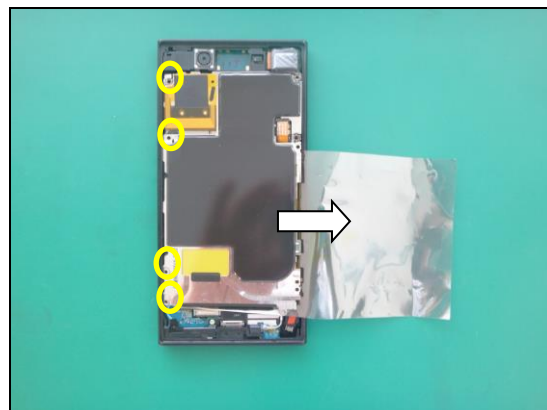
Place the 1<sup>st</sup> ESD Film on the unit to avoid damages to the Battery.

**Note! Cut the ESD Bag to make the ESD Film that size 75mm x 145mm.**



Install the Plate Display Assy with the Battery on the unit.

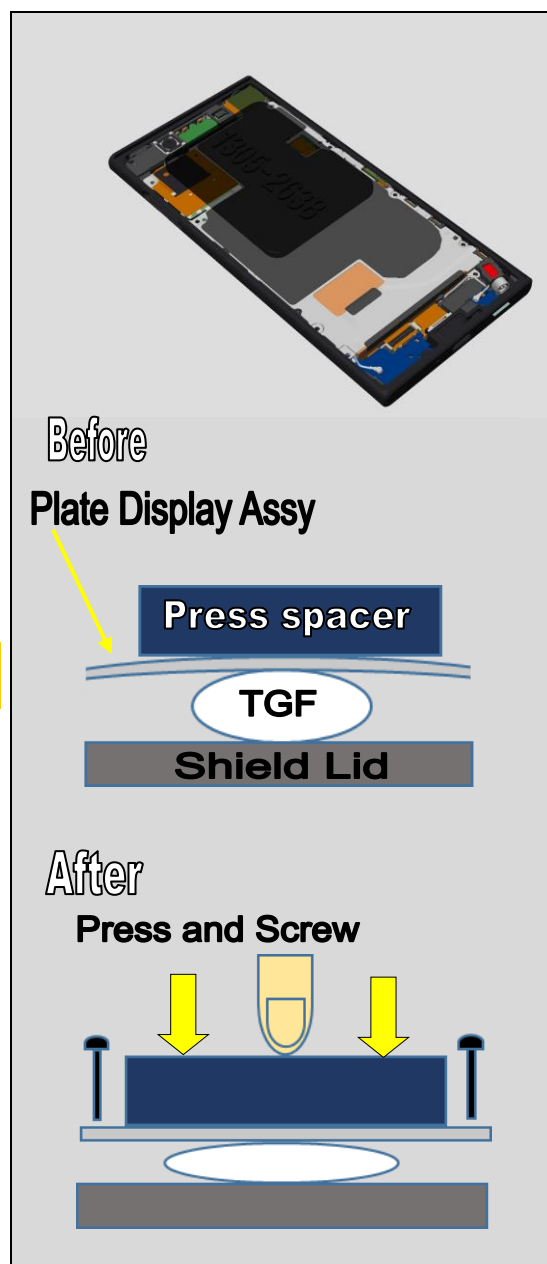
**Note! Make sure to align the 4 screw holes on the unit and the Plate Display.**



## Reassembly

Put the Press spacer on the Plate Display Assy.  
Press the Press spacer with finger.

**Note! Make sure the Plate Display flatness around the TGF.**



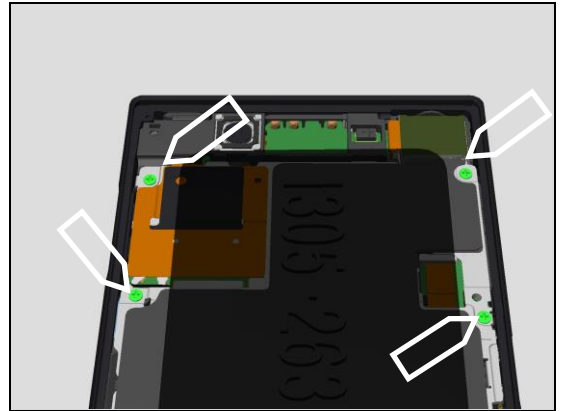
## Reassembly

Tighten Screw M1.4 x 4.0 by using the screwdriver with Bits (JCIS No 0).

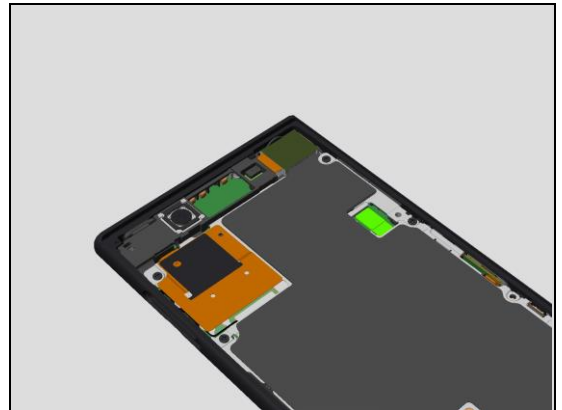
Torque :  $12\text{Ncm} \pm 1.01$

Press the Press spacer with finger during tightening.

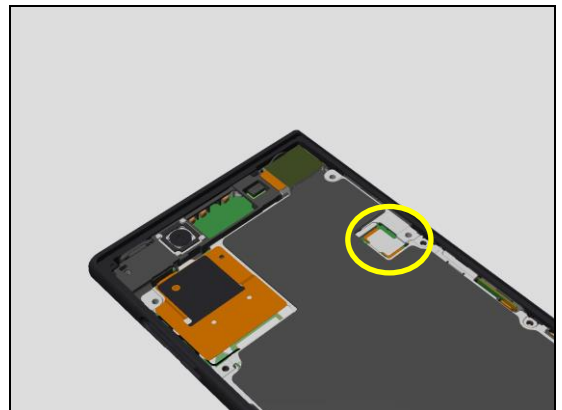
**Note! Don't tighten the Plate Battery B to B Screw.**



Connect the Battery B to B to the PBA complete.

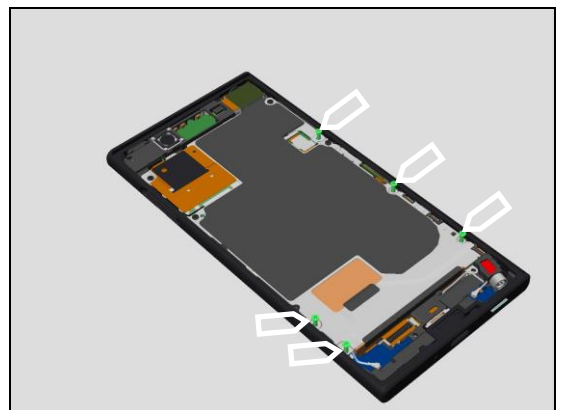


Install the Plate BtB Battery on the unit.



Tighten Screw M1.4 x 4.0 by using the screwdriver with Bits (JCIS No 0).

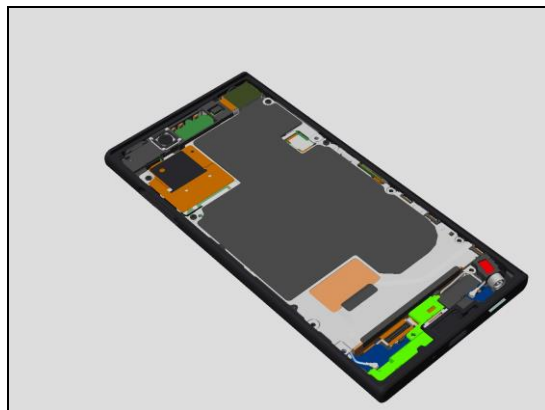
Torque :  $12\text{Ncm} \pm 1.01$



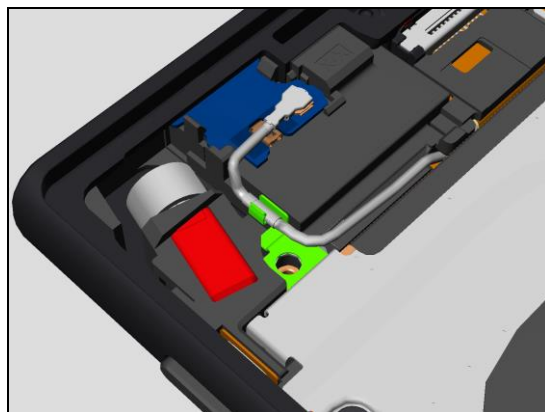


## Reassembly

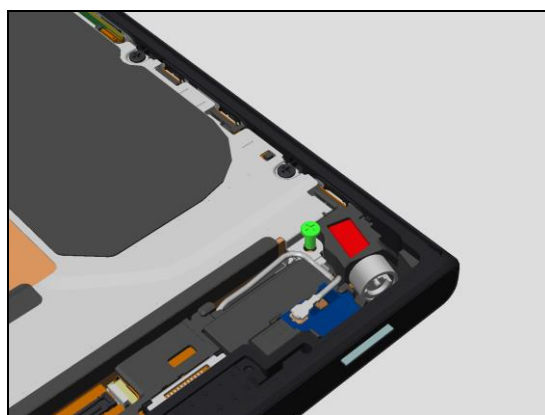
Install the Holder Bottom Assy on the unit.



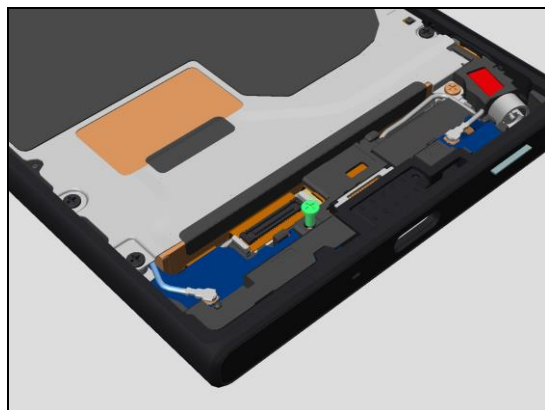
Install the Cable Clip Bottom on the unit.



Tighten Screw M1.4x3.0 by using the screwdriver with Bits (JCIS No 0).  
Torque : 12Ncm $\pm$ 1.01

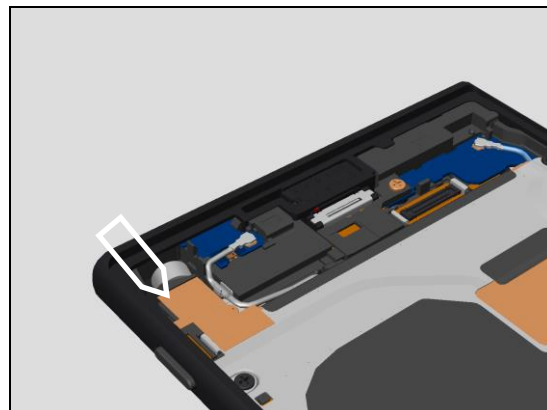


Tighten Screw M1.4x3.0 by using the screwdriver with Bits (JCIS No 0).  
Torque : 12Ncm $\pm$ 1.01

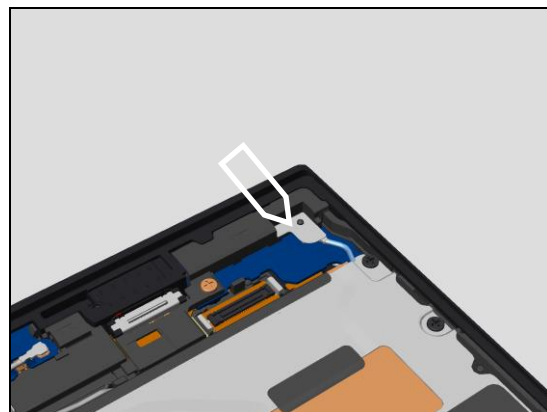


## Reassembly

Affix the Sheet Conductive Vib on the unit.



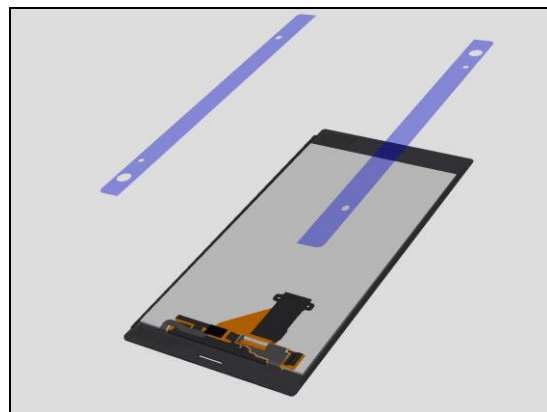
Affix the Sheet RF Cable Left on the unit.



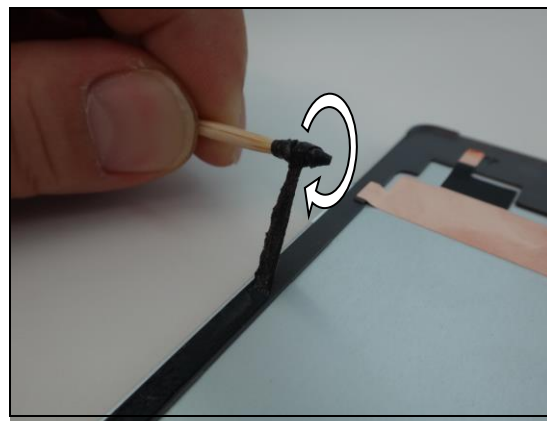
### 5.17 Display Assy

Remove the Adhesive BL Display with Film.

**Note! If the Adhesive BL Display is not attached on the new part of Display Assy. You can use it as is (no require to remove the Adhesive BL Display)**



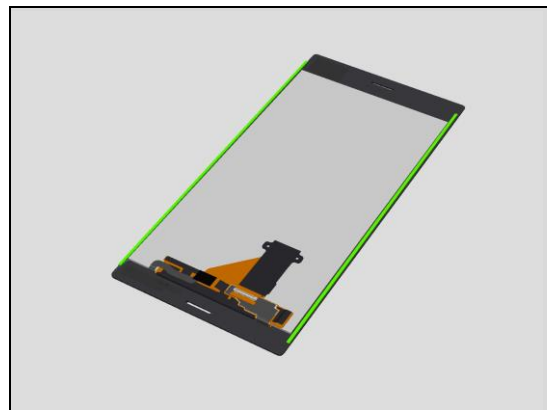
Remove the Adhesive BL Display to use Bamboo Skewer.  
Rotate the Bamboo Skewer to take up the Adhesive BL Display.



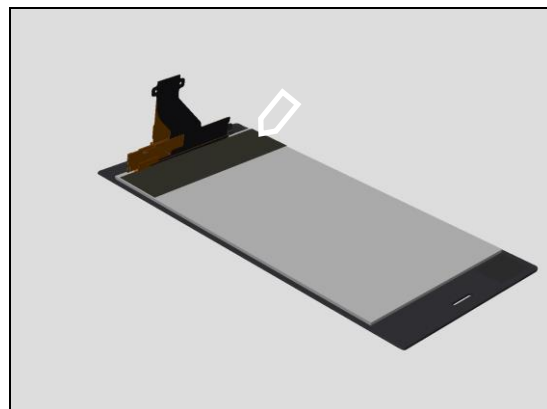
## Reassembly

**Note! Make sure to remove all residues of the Adhesive BL Display completely from the Display Assy (Green Highlighted Area).**

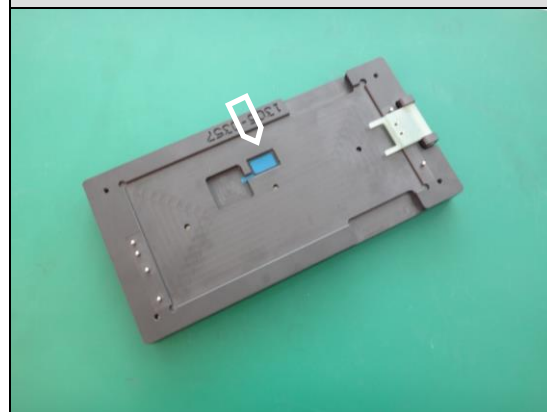
**Don't use Isopropyl Alcohol.**



Affix the Sheet Graphite LCD on the Display Assy.



Place the Adhesive WR Speaker Bottom on the Adhesive Position Pin Fixture.

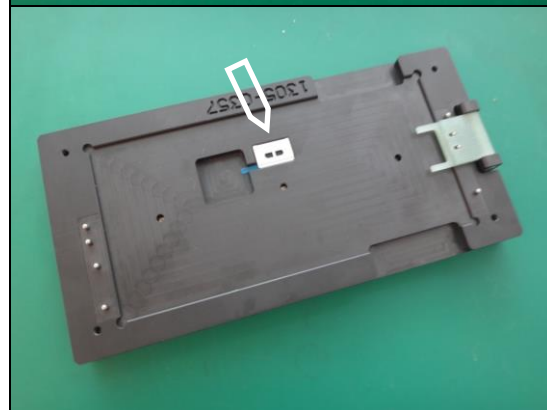


## Reassembly

Remove the Sheet on the Adhesive WR Speaker Bottom.

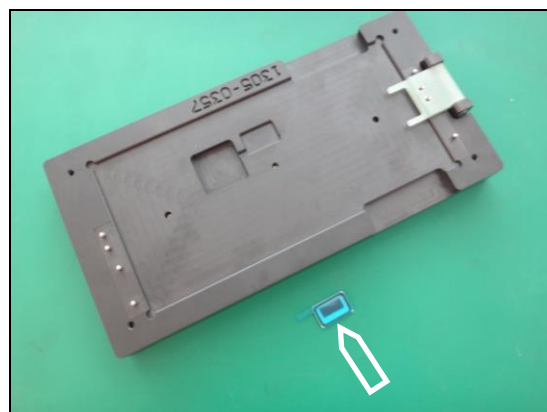


Put the Holder Speaker Top Assy on the Adhesive Position Pin Fixture and affix the Adhesive WR Speaker Bottom on bottom side of the Holder Speaker Top Assy



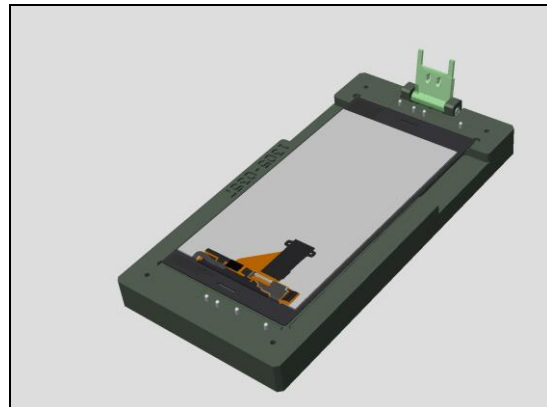
R

Remove the Holder Speaker Top Assy from the Adhesive Position Pin Fixture.

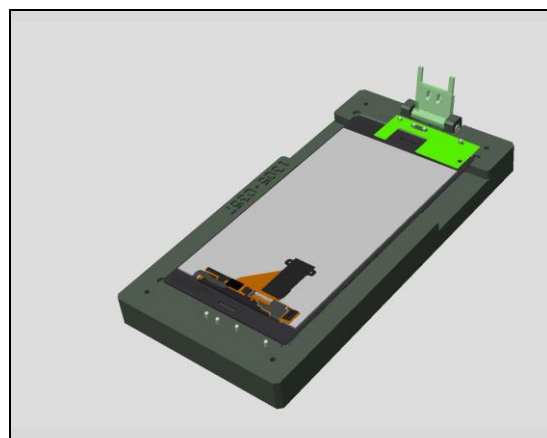


## Reassembly

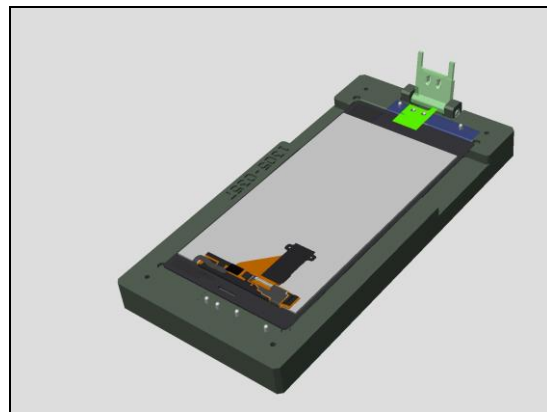
Place the Display Assy on the Adhesive Position Pin Fixture.



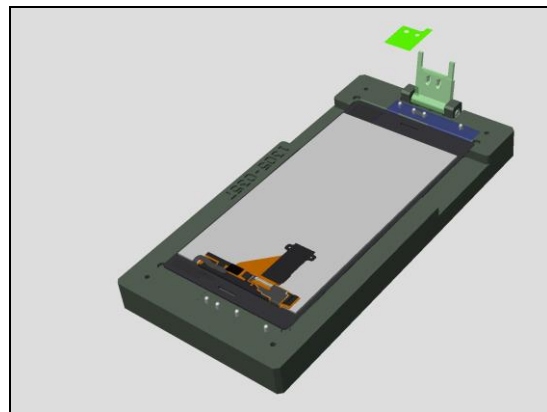
Affix the Adhesive Window Display Top on the Display Assy with the Adhesive Position Pin Fixture.



Affix the Sheet Net Speaker Top on the Display Assy with the Adhesive Position Pin Fixture.

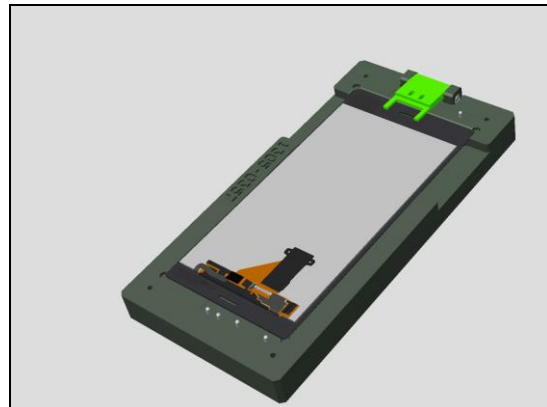


Remove the Film of the Sheet Net Speaker Top.



## Reassembly

Set the Guide for the Holder Speaker Top Assy.



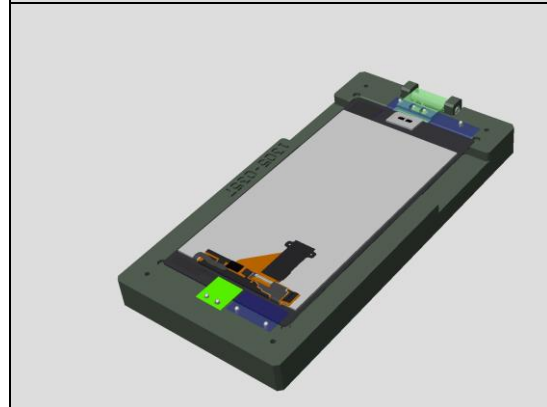
Install the Holder Speaker Top Assy on the Display Assy.



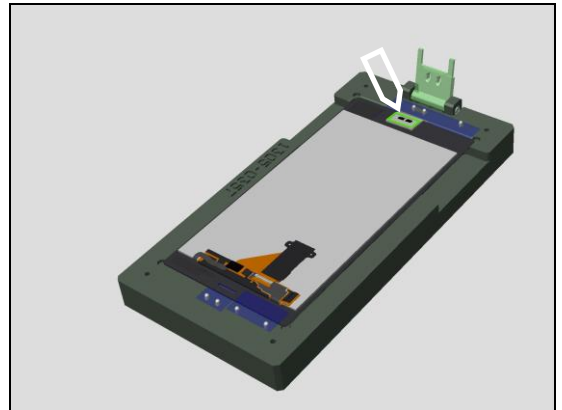
Affix the Adhesive Window Display Bottom on the Display Assy with the Adhesive Position Pin Fixture.



Affix the Sheet Net Speaker on the Display Assy with the Adhesive Position Pin Fixture.

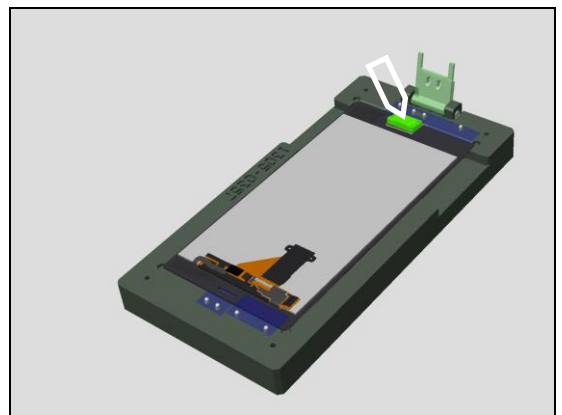


Affix the Adhesive WR Speaker Bottom on the Holder Speaker Top Assy.

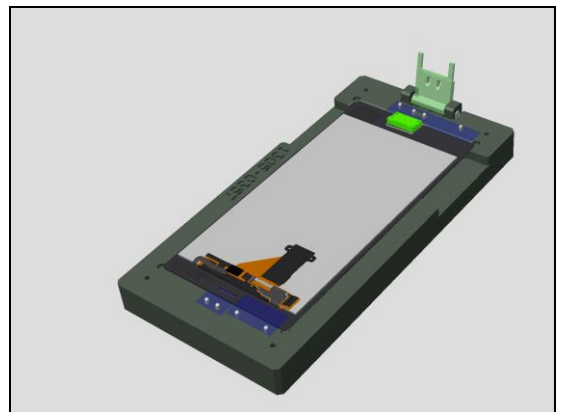


### 5.18 Loud Speaker

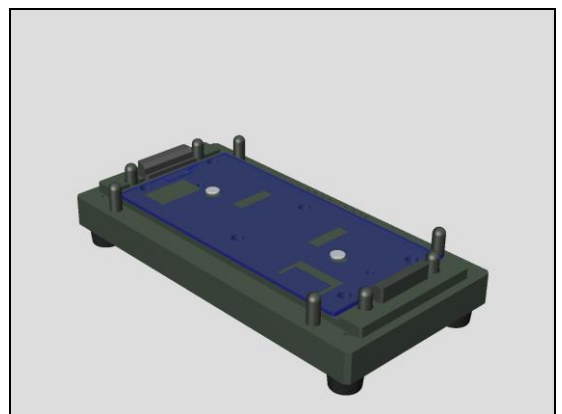
Install the Loudspeaker on the Holder Speaker Top Assy.



Press the Speaker for 10 seconds with finger.



Place the Adhesive WR Window Display on the Window panel Adhesive Fixture.

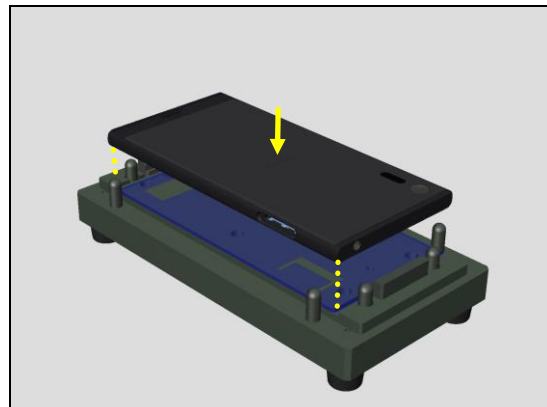




## Reassembly

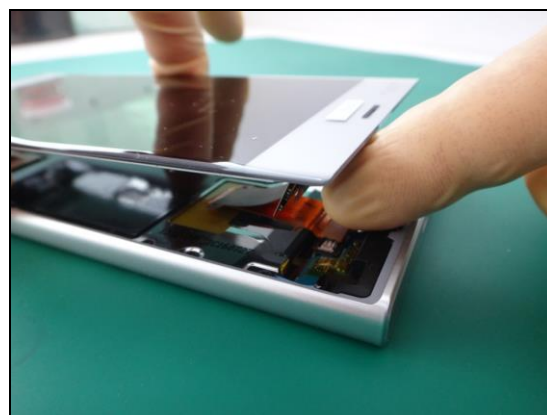
Affix the Adhesive WR Window Display on the unit with the Window panel Adhesive Fixture.

**Note! Make sure correct direction.**

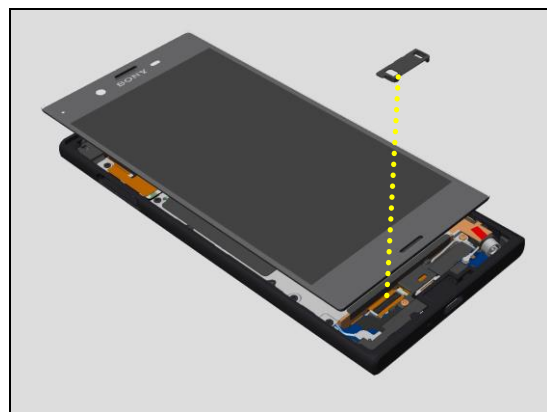


Connect the Display Assy B to B to the unit.

**Note! Don't touch the Adhesive WR Window Display.**



Install the Holder LCD B to B on the unit.



Install the Display Assy on the unit.



## Reassembly

### 5.19 Cap Tray Assy

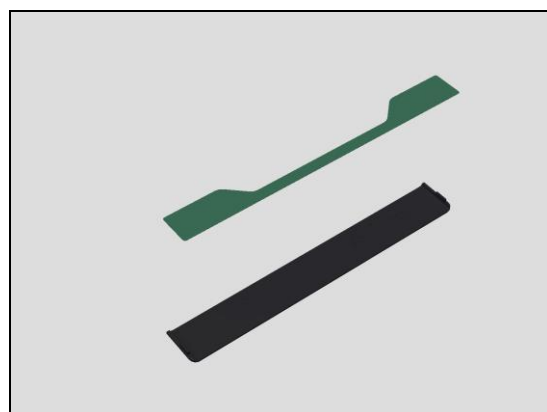
Insert the Cap Tray Assy to the unit



Affix the Sheet WR Test on the unit.



Affix the Adhesive Panel Rear Bottom on the Panel Rear Bottom.



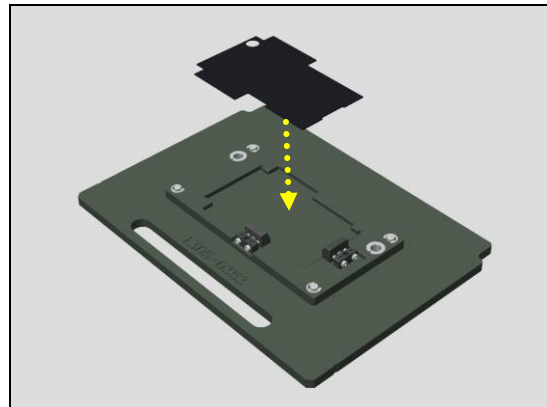
Install the Panel Rear Bottom on the unit.



## Reassembly

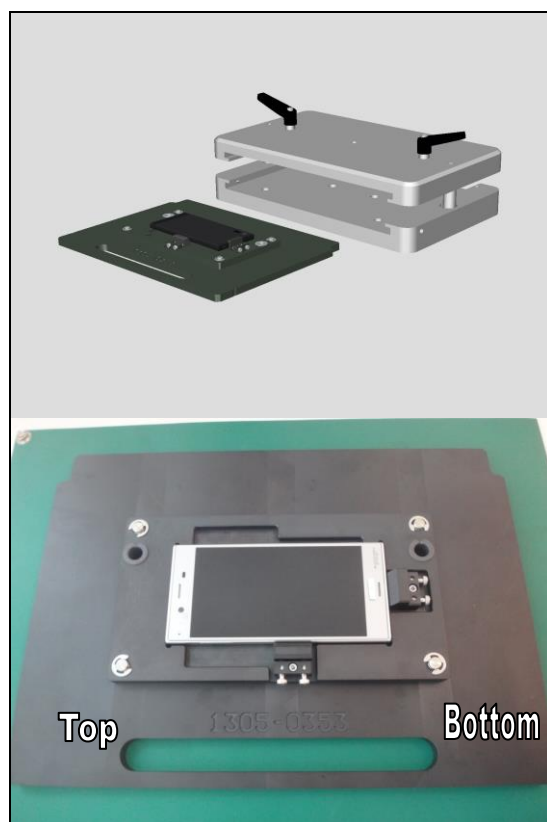
Place the Sheet for Bottom Press Inlay on the Bottom Press Inlay.

**Note! The Sheet for Bottom Press Inlay avoid damages to the Window Camera when press the unit.**

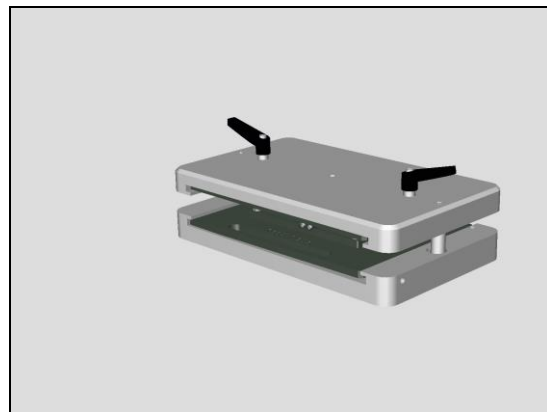


Place the unit on the Bottom Press Inlay.

Note! Make sure the unit is placed on the correct position as shown.



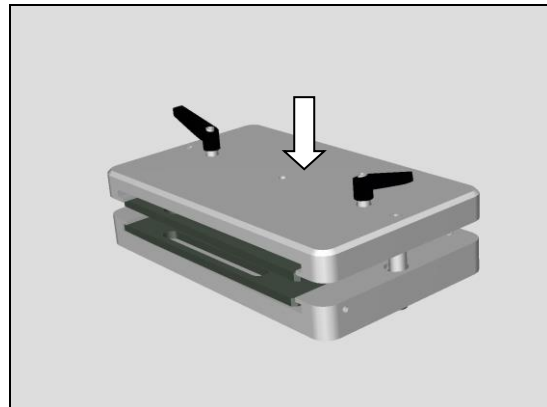
Insert the Top Press Inlay to the Generic Press Tool.



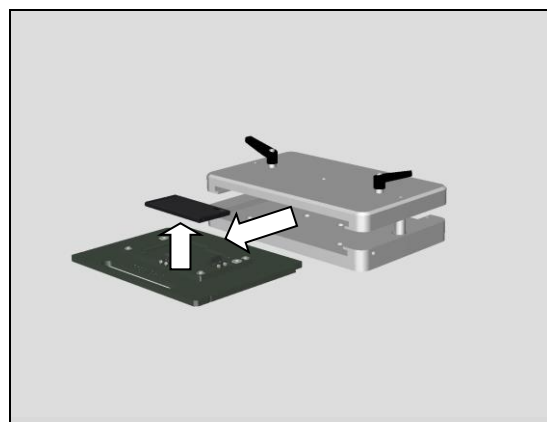
## Reassembly

Press it with pressure value of 950N (+/- 50N) for 13 second twice.

**Follow the instruction in 1003-9107 Tool Catalogue – mechanical and document Toothed Rack Press Instruction for use.**



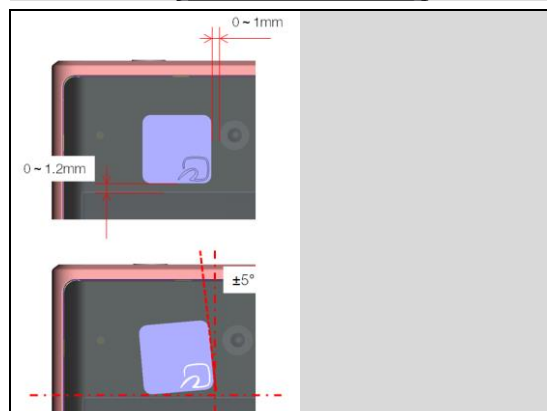
Remove the Bottom Press Inlay and take out the unit.



Affix the Label NFC location as shown.



Make sure that Label NFC is placed on the correct position as shown.



## 6 Battery Reuse Instruction

**If you intend to reuse the Battery, carefully follow the Battery Reuse Instruction.  
If it is failed, Don't reuse, and Scrap the Battery.**

### 6.1 Battery Handling Notices

**Don't damage the battery foil with sharp objects.**

**Don't twist or deform the battery in any way.**

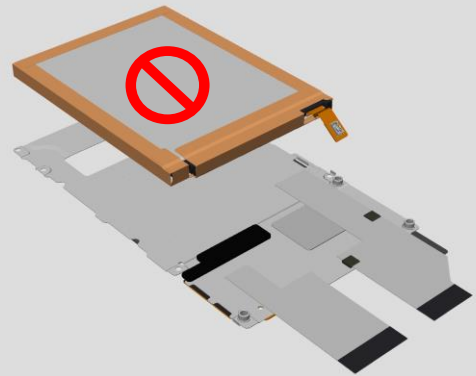
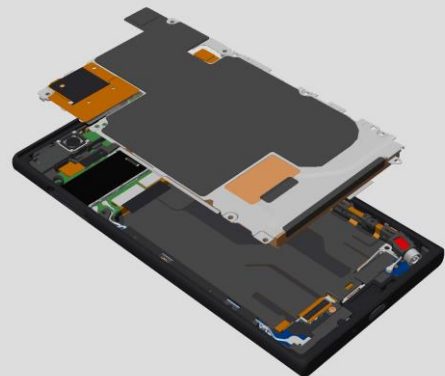
**If the battery is dropped to floor, should not be used, and scrap.**

#### Reuse conditions

- In case of removing the Battery with Plate Display Assy as shown.
- Battery appearance check is OK.

#### **Scrap!**

**Don't reuse the Battery when the Plate Display Assy is removed from the Battery!**



## Battery Reuse Instruction

### 6.2 Appearance Check

**Check if any damages on the battery such as Winkle, Mark, Bubble, Dent, and/or Scratch.**  
**If it is out of below specification, do not reuse, and scrap the battery.**

Item of Damage	Limit of size		Limit of quantity
	Label/Tape surface	Cell surface	
Winkle	Length $\leq$ 5mm	-	1 wrinkle per label or tape
Mark	Length $\leq$ 3mm	-	1 mark per label or tape *
Bubble	Diameter $\leq$ $\Phi$ 2mm	-	3 bubbles per label or tape *
Dent	Diameter $\leq$ $\Phi$ 2mm		5 dents per surface
Scratch	Width $\leq$ 0.5mm Length $\leq$ 10mm 10mm < Length $\leq$ 15mm 15mm < Length $\leq$ 20mm		5 lines per surface 3 lines per surface 1 line per surface

\* Bubble and Mark by air is not defect, and it is OK to use.

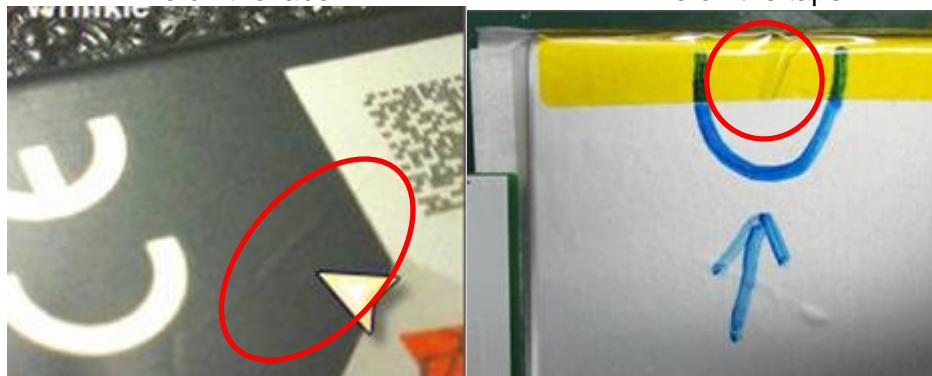
### Definition of Damages and Sample Pictures

**Wrinkle:**

A slight line or fold on label or tape of the battery.

Wrinkle on the label

Wrinkle on the tape



**Mark:**

Surface is bulged as lined by foreign material is located between Al sheet and battery cell housing.

Mark on the label



## Battery Reuse Instruction

### Bubble:

Surface is bulged as pointed by foreign material is located between Al sheet and battery cell housing.

Bubble on the label



Bubble on the tape



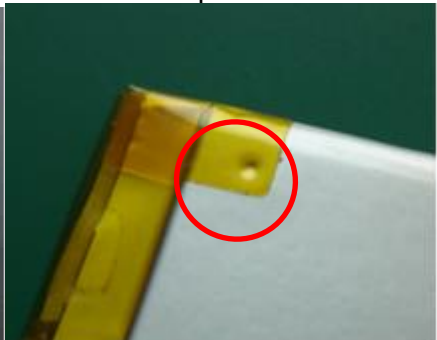
### Dent

It is caused that is stuck by sharp pointed objects.

Dent on the label



Dent on the tape



Dent on the Cell surface



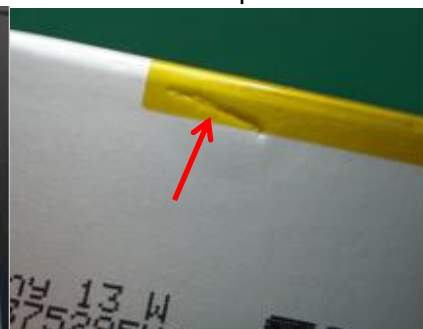
### Scratch

It is caused that scratched by sharp edge/pointed objects.

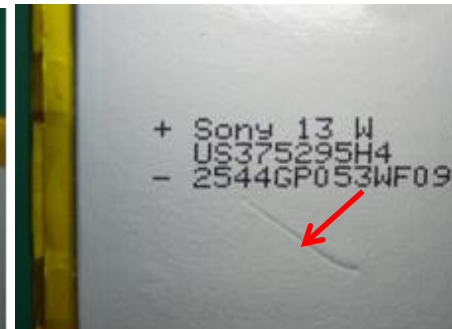
Scratch on the label



Scratch on the tape



Scratch on the Cell surface



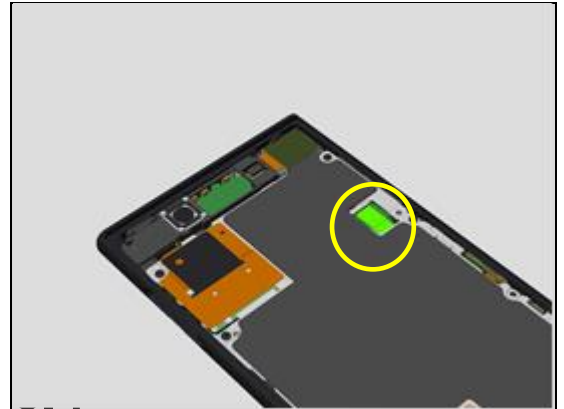


## Battery Reuse Instruction

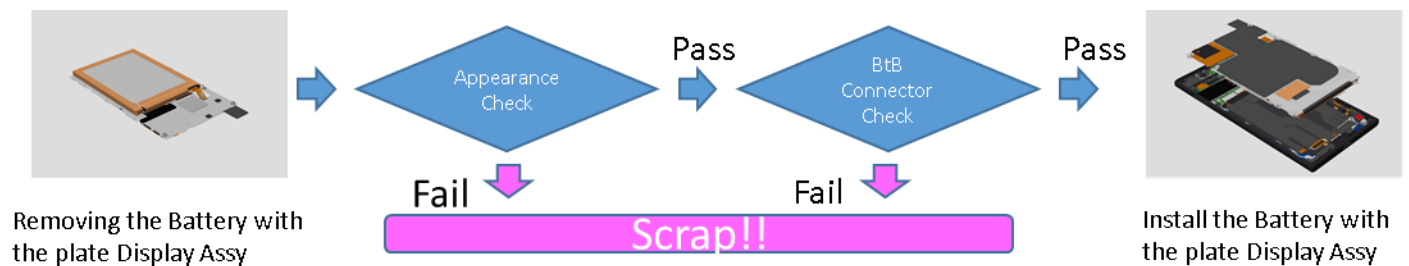
### 6.3 B to B Connector Check

Check if B to B connector has damages.

If any damages on the B to B connector, don't reuse, and scrap the Battery.



### 6.1 Overall Procedure for Battery Reusing



## 7 Revision History

Rev.	Date	Changes / Comments
1	2017-Mar-17	Initial release